



# ST. LOUIS ENGINEER

*St. Louis Chapter* Missouri Society of Professional Engineers

## The Good Side of the City – Outstanding St. Louis Engineer Stories

**Wesley W. Horner** was a prominent civil engineer specializing in urban hydrology and hydraulics. He was described as one of “the three wise men” in the 1930’s hydrology by Victor Mockus, another prominent engineer of that era. He was President of ASCE (1946) and the Wesley W. Horner Award was instituted in his honor in 1968 to recognize papers that make valuable contributions to the profession in the disciplines of hydrology, urban drainage, or sewerage.

**Leif J. Sverdrup** was an outstanding Missouri Civil and Military Engineer and Bridge Builder. In 1928 he and his former civil engineering Professor John I. Parcel formed Sverdrup & Parcel Consulting Engineers. In Oct. 1941, the War Department hired Sverdrup & Parcel to work across the Central Pacific. By the end of the war MacArthur personally decorated Major General Leif Sverdrup with the Distinguished Service Cross stating, “This is the engineer soldier at his best.” In the 1960s, Sverdrup Civil managed the design and construction of the parallel trestles of the Chesapeake Bay Bridge-Tunnel (CBBT). The CBBT was the largest in the world at completion.

### About the Presenters:

**Steven Randolph, PE:** Steve is a 23-year employee of Horner & Shifrin where he began his career in St. Louis after graduating from Washington University with a degree in Civil Engineering. In 2001, he received his MBA from Webster University. In 2015, Steve moved to Chicago to help open a branch office there. He is on the Board of EWRI’s Chicago Chapter and his ASCE duties have included a term as President of the St. Louis Section, chairperson of that Section’s Diversity and Inclusion Committee, and a participant in ASCE’s Legislative Fly-In. He is a Certified Professional in Erosion and Sediment Control (CPESC) and a member of the Illinois Association for Floodplain and Stormwater Management.

**Michael T. Buechter, PE, D.WRE:** Michael is a Program Manager with the Metropolitan St. Louis Sewer District. He joined the District in 2003 and has been involved in the Municipal Separate Storm Sewer System (MS4) Program, Green Infrastructure, trenchless technology and private inflow reduction projects. Michael received his BSCE degree from Missouri S&T and his MSCE degree from Oklahoma State University. He is a past Director of the Engineers’ Club of St. Louis, Past-President of the local section of ASCE, Past-Chairman of the local chapter of EWRI and current President of the St. Louis Chapter of the Missouri Society of Professional Engineers as well as a member of the EWRI of ASCE Governing Board.

### Time, Date, Location:

11:30am-1:00pm, 11/13/18, at the Engineering Center, 4359 Lindell, St. Louis 63018.

Registration starts at 11:30am and lunch is served at 11:45am.

The program will begin promptly at 12:00pm. One (1) PDH is available.

**Cost** \$15/person, students and members in transition \$5 (checks payable to ASCE)

**Registration details to follow**

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November Joint Luncheon

# P R E S I D E N T ' S M E S S A G E

## MSPE St. Louis Chapter – October 2018 President's Report



*“It is a great profession.  
There is the fascination of watching a figment  
Of the imagination emerge through the aid of science to  
a plan on paper.  
Then it brings jobs and homes ... it elevates the standards  
Of living and adds to the comforts of life.  
That is the Engineer's high privilege.”*

-Herbert Hoover, Engineer, Humanitarian, & 31<sup>st</sup> President

I was reminded of the above quote when I attended the MSPE President's Workshop in Jefferson City on September 14<sup>th</sup>. Discussed at the Workshop and mentioned in this newsletter is Proposition D, a referendum to fund Missouri highway construction and maintenance. With the last funding increase for Missouri highways now nearly two decades old, a time in which over 6,000 lane miles have been added to the highway system, the funding increase is well overdue. Certainly our highways and roads in Missouri contribute to the “comforts of life” and help bring “jobs and homes” much as President Hoover mentioned. So MSPE encourages its membership to vote yes on Proposition D on November 6<sup>th</sup>.

In addition to the Workshop above we had other great events that served to remind me talent many Engineers bring to MSPE. At the Chapter level we held a Section Workshop on September, 28<sup>th</sup>, at the Engineering Center of St. Louis. This Workshop provided many ideas for interesting programs. Another exciting event was the Fall P.E. Ceremony on September 29<sup>th</sup> at the Capitol Rotunda in Jefferson City. An event featuring the Honorable John R. Ashcroft as well as recognizing Missouri's newly registered Professional Engineers.

We have even more upcoming events outlined in this newsletter including an interesting joint lunch with ASCE on November 13<sup>th</sup>. I encourage you to come join us! If you have questions please call or email me, 324-768-2772 or [mtbuec@stlmsd.com](mailto:mtbuec@stlmsd.com). Finally, remember to vote on November 6<sup>th</sup>!

Essays! (Motto of the U.S. Army Corp of Engineers, Let Us Try!)  
Michael T. Buechter, PE, D.WRE

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Vice Pres Eric Hayes, E.I. (636) 534-3225  
Treasurer Rebecca Losli, P.E. (314) 768-6294  
Secretary Allison Morris, E.I. (314) 682-2966  
Past Pres Josh Crews, PE, PMP, PhD (314) 694-0890

### **Chapter Directors**

Adam Zuroweste, P.E.  
Mike Rademacher, E.I.  
Jeremiah King, P.E.  
Erin Jearls, P.E.  
Marc Eshelman, P.E.  
Jennifer Kuchinski, P.E.

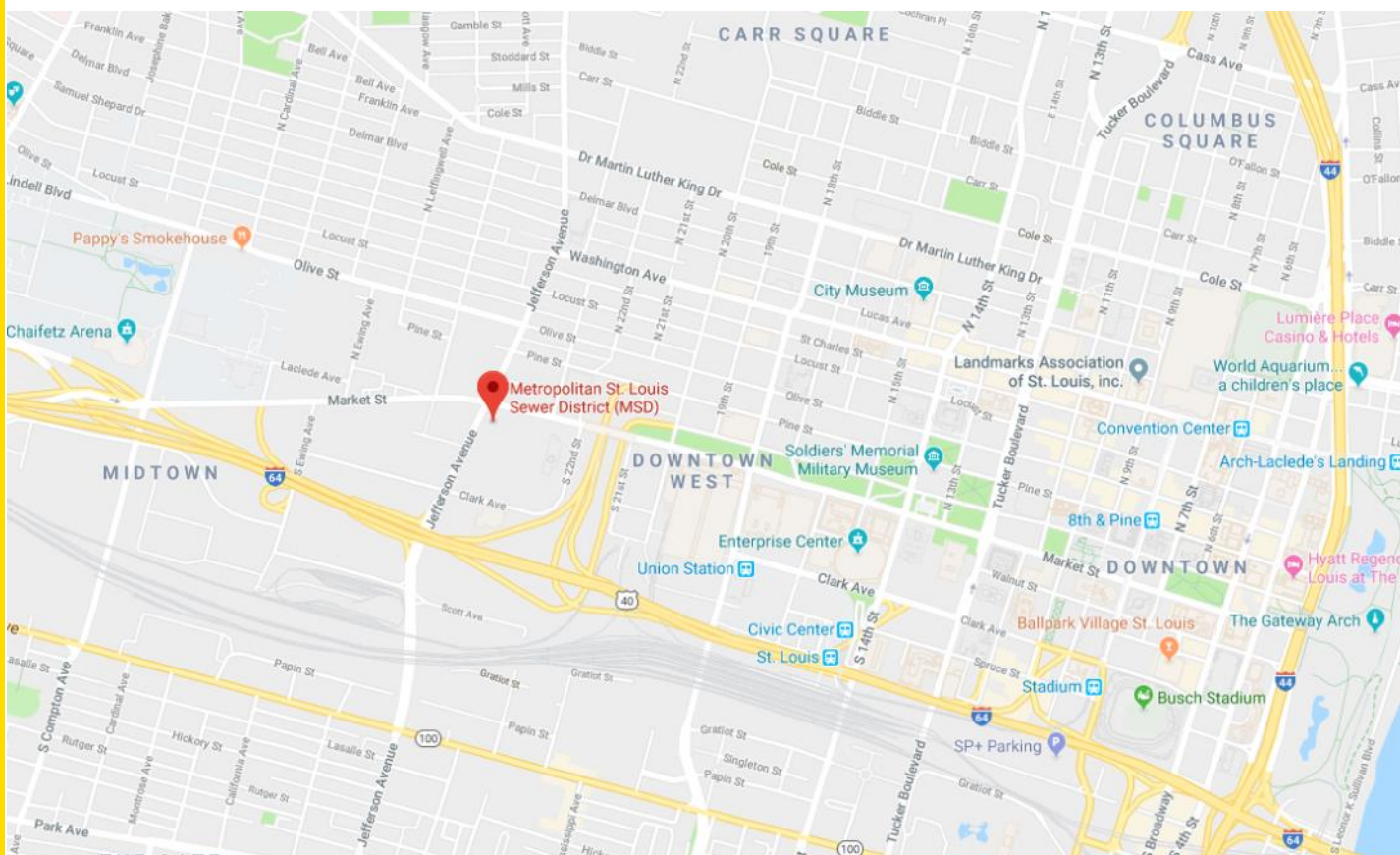
# Next Board Meeting:

Friday, October 26th, 7:00 - 9:00 AM

Metropolitan St. Louis Sewer District  
2350 Market Street  
St. Louis, MO 63103-2555  
Conference Room MKT 100A

*MSPE St. Louis Board Meetings are open to all members and prospective members! Come on out if you would like to get involved or are just simply interested in how the organization works.*

*Bring a friend or colleague who may be interested in joining the organization.  
**No commitment required!***



**Phone Conference Option**

**Number: 877-470-7323**

**Participant Code: 8560213270**

# St. Louis P.E. Job Posting



FEDERAL RESERVE BANK *of* ST. LOUIS  
CENTRAL TO AMERICA'S ECONOMY®

## **Facilities Mechanical Engineer - 257123**

Federal Reserve Bank of St. Louis

The Facilities Mechanical Engineer is a member of the Facilities Planning, Design and Construction team that is responsible for the oversight of construction services for offices located throughout The Federal Reserve Bank of St. Louis' district. The Mechanical Engineer is responsible for the development of engineering solutions, cost and schedule estimates, preliminary designs and construction feasibility analysis associated with initial development and budgeting of facilities projects. Upon project authorization oversee detailed design, drawing preparation, prepare specifications for equipment and construction contracts, finalize cost and schedule estimates and lead in the planning and coordination of projects as required. Provide technical assistance to other groups as necessary and overall project management as assigned.

### **Responsibilities**

- Work collaboratively with Bank leadership, Facilities team members and other Bank stakeholders to ensure seamless project integration and construction.
- Accountable for overall project performance; monitor and control of project activities through day-to-day interaction with contractors and consultants to ensure quality standards are met and the project is delivered on time and within budget, while meeting all project specifications.
- Responsible for contracting process, selection of design consultants, vendors and construction contractors as necessary for each project.
- Develop design guidelines and standard operating procedures for HVAC/plumbing related equipment.

### **Qualifications**

- Bachelor's degree in Mechanical Engineering or commensurate experience.
- 5 years relevant experience
- Professional Engineer (PE) license
- Experience in commercial building HVAC, plumbing, piping and mechanical system design preferred.
- Working knowledge of ASHRAE, International Mechanical Code (IMC) and International Energy Conservation Code (IECC).
- Ability to lead and manage multiple priorities and operate in a faced paced environment with tight completion time frames.
- Comfortable making difficult decisions, a drive for results orientation and able to apply sound fiscal policy and accountability with both internal and external constituents
- Strong team leadership and outstanding interpersonal skill with ability to influence at all level of the organization
- Excellent written and oral communication and presentation skills.
- Ability to work extended hours as required based upon project assignments.
- Technical knowledge and ability to read construction drawings and specifications
- Travel (15%)

### **If interested please visit:**

<https://frb.taleo.net/careersection/2/jobdetail.ftl?job=257123&lang=en>

# Missouri Society of Professional Engineers - St. Louis Chapter

## 2018-2019 Calendar

Sep-18						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Nov-18						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Jan-19						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
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27	28	29	30	31		

Oct-18						
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Dec-18						
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23	24	25	26	27	28	29
30	31					

Feb-19						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

- Kickoff Meeting Chapter/Foundation Board Meeting
- Chapter/Foundation Board Meeting
- Newsletter Deadline for Article Submittals, President's Message, Program Information, Etc.
- Newsletter Posting Date to MSPE Website
- Tentative Program Dates
- 2019 Eweek
- Missouri Engineer Publication Dates

**Potential Programs, potential 3rd Thursday of the month:**

- September: MSPE Workshop
- October: Bye
- November: Joint Meeting ASCE
- December: Happy Hour
- January: Upcoming MSD Program/ Joint Meeting IEEE
- February: Awards Dinner
- March: Lunch Tunnels/Drones, NSBE Joint Event/ Tour Stadium
- April: Lunch Tunnels/Drones, NSBE Joint Event/ Tour Stadium
- May: Tour Steel Fabricators
- June: Lunch Tunnels/Drones Officer Installation/ Tour Stadium

# MSPE MEMBERSHIP ALERT

## MSPE ENDORSES PROPOSITION D

### VOTE YES ON NOVEMBER 6

September 21, 2018

Missouri Society of  
Professional Engineers



**JEFFERSON CITY-** The Missouri Society of Professional Engineers has endorsed Proposition D, a referendum to fund Missouri highway construction and maintenance. Proposition D is on the November 6th ballot.

According to the referendum's fiscal summary: "If passed, this measure will generate at least \$288 million annually to the State Road Fund to provide for the funding of Missouri state law enforcement and \$123 million annually to local governments for road construction and maintenance."

MSPE encourages its membership to vote yes on Prop D on November 6.



Missouri Society of  
Professional Engineers

**NOVEMBER 6**  
**FOR SAFER ROADS**

573-636-4861 | 573-636-5475 | [mspe@mspe.org](mailto:mspe@mspe.org) | [www.mspe.org](http://www.mspe.org)

# CALL FOR NOMINATIONS SOUGHT FOR AWARDS

Please consider nominating a fellow member, colleague, customer or company for one or more of the St. Louis Chapter's Awards this year. The awards will be presented at the annual Engineers Week Awards Banquet. Deadline for submitting nominees and applications is the **December 15th, 2018**. Nominations should include resume, biographical sketch or completed application form.

A full list of past award winners, award descriptions and specific qualifications is available on the website: [http://mspe.org/content.php?page=St. Louis Chapter](http://mspe.org/content.php?page=St._Louis_Chapter) under *St. Louis Chapter History*.

## **Engineer of the Year**

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

## **Young Engineer of the Year**

- Age 34 or younger as of January 1, 2019
- Membership in MSPE and NSPE *is* required

## **Outstanding PE In Government**

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

## **Outstanding PE Private Practice**

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

## **Outstanding PE in Construction**

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

## **Outstanding PE in Industry**

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

## **Outstanding Professional Engineer in Education**

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

## **Qualifications-Based Selection (QBS)**

- Company award

## **Private Practice Professional Development (PPPD)**

- Company award

Questions or nominations should be directed to Awards Committee Chair:

Michael Rademacher, [mrademacher@burnsmcd.com](mailto:mrademacher@burnsmcd.com)



**Missouri Society of  
Professional Engineers**

## **MSPE MEMBERSHIP ALERT**

# **MSPE LAUNCHES NEW WEBSITE**

Visit [www.mspe.org](http://www.mspe.org)

*September 19, 2018*

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**JEFFERSON CITY-** The Missouri Society of Professional Engineers has announced a new website is now live at [www.mspe.org](http://www.mspe.org). The new website is powered by Wild Apricot membership software, which is now being used by association staff. Wild Apricot membership software was selected for use by MSPE's IT Committee in April 2018 to streamline services.

The new website includes the information that existed on the previous website with several enhancements. A strong emphasis is being put on the site to increase communication between chapters and members across the state. MSPE staff is strongly encouraging chapters to send the state office chapter news that will be posted on the state website with local events listed on the events page.

The new site also provides for several streamlined work and cost efficiencies as Wild Apricot membership software continues to be implemented. For example, the previous association website existed independently at a cost, while mass email distribution to membership utilized another vendor program. Moreover, the association's database is currently managed by additional vendor software and none of the programs directly link to each other, causing extensive staff time to ensure data and content is entered properly every time a change is made. Each program also requires its own monthly fees paid by the association.

In contrast, Wild Apricot membership software allows all of the same services to be used by one program for one fee. Data is entered just once, which will reduce the possibility for error. Plans are underway to upload the membership database to Wild Apricot this fall.

MSPE Executive Director Travis Lowe said he is excited about the new software. "This change will save the association money while simplifying our work. Our association management team has had the opportunity to use Wild Apricot membership software for ten of our association management clients. We have improved accuracy and efficiency with this software, which allows us to better focus on staff's talents toward membership retention, solicitation and other best practices."

573-636-4861 | 573-636-5475 | [mspe@mspe.org](mailto:mspe@mspe.org) | [www.mspe.org](http://www.mspe.org)





**Missouri Society of  
Professional Engineers**

Protecting and Enhancing Your Career Investment

## **SUPPORT MSPE'S PROFESSIONAL ENGINEER CERTIFICATE CEREMONY EVENT**

Saturday, September 29, 2018 at the  
Missouri State Capitol, Jefferson City, MO

All MSPE members are welcome to attend the Professional Engineer Certificate Ceremony, and participate in the Order of the Engineer Ceremony outlined on the Schedule of Events.



**This special event needs your support!**

We are asking for Ambassadors to assist with the afternoon activities. Be part of this exciting event, volunteer now by contacting Stacey Meyer at [smeyer@mspe.org](mailto:smeyer@mspe.org) or (573) 636-4861.

