



ST. LOUIS ENGINEER

St. Louis Chapter Missouri Society of Professional Engineers

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

This Luncheon will highlight two historic local Engineers

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. 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 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 to 1:00pm, November 13, 2018, 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

Please register and pay online using the link below for reservations by 5:00pm, Thursday, November 8, 2018. Please note that we will no longer be accepting event registration through the Engineering Center, and you must register online. If you wish to pay at the door, select the "pay by check" method of payment on the online registration page. If you've signed up and can't make it, please cancel by Friday before the meeting or we may have to charge you for the meal. <https://goo.gl/Z7bd3D>

November Joint Luncheon

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

MSPE St. Louis Chapter – November 2018 President's Report

In 1934, a group of professional engineers met in New York City to establish an organization dedicated to the non-technical concerns of licensed professional engineers. From this group, led by D. B. Steinman a noted bridge Engineer, the **National Society of Professional Engineers (NSPE)** was born. The NSPE stands today as the only national organization committed to addressing the professional concerns of licensed PEs across all disciplines.



Mr. Steinman was one of the first to appreciate the concept that engineering is a profession. The principles of registration of Engineers and the adoption of professional standards and ethics led him to founding NSPE. He worked tirelessly for nearly 30 years to build NSPE to 55,000 members and 53 state societies at the time of his death.

At the 25 year anniversary of NSPE Mr. Steinman spoke, "...Our dream has come true. We have achieved public and legislative recognition that engineering is a profession, that engineering is a learned profession, that engineering is one profession. Moreover we have reminded the world that engineering is founded on great ideals – the ideals of vision, character, integrity and service to humanity."

I note a new Membership model between NSPE and MSPE is in effect as of July 1, 2018. The new model sets a uniform dues structure of \$299 for three tier (NSPE/MSPE/Local Chapter) members for renewals and anyone new join the organization. For Missouri, this will reduce the three-tier membership level from \$360 to \$299, a \$61 drop in annual dues! I urge you to take advantage of this new membership model and carry on

the proud tradition of Mr. Steinman.

Of course here in St. Louis we have no shortage of our own famous Engineers. I hope you will join us for a Joint Luncheon with ASCE on Tuesday, November 13, 2018, at the Engineering Center, 4359 Lindell (further details are in this newsletter). We will be celebrating two historic local Engineers, Wesley W. Horner and Leif J. Sverdrup. Like Mr. Steinman both of these men created legacies all engineers may draw inspiration from.

St. Louis is also home to many great engineering works such as the Gateway Arch, a global icon and symbol of the St. Louis region. Of course as engineers we realize our infrastructure comes in all forms and needs funding. So I hope you will also join us on December 13, where Tom Blair, PE, will discuss the future of Transportation in Missouri (further details are in this newsletter). This will be specifically topical presentation in the wake of the Proposition D vote, whatever the outcome. So join us for Mr. Blair's presentation and remember to **vote Yes for Proposition D on November 6th**.

Finally for those of you inclined to learn more about Mr. Steinman please see my source:
<https://www.nspe.org/sites/default/files/resources/pdfs/AboutNSPE/Writings-of-DB-Steinman.pdf>

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

St. Louis Engineer
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Adam Zuroweste, P.E.
azuroweste@burnsmcd.com

St. Louis Chapter Officers
President Michael Buechter, P.E. (314) 768-2772
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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.

St. Louis P.E. Job Posting



METROPOLITAN ST. LOUIS SEWER DISTRICT

CIVIL ENGINEER Program Planning – Green Infrastructure

The Metropolitan St. Louis Sewer District (MSD) is a Missouri State special purpose political subdivision that is responsible for the St. Louis area's storm water and sewer collection and treatment. MSD ranks in the nation's top wastewater utilities, and anticipates spending approximately \$4.7 billion on capital investment and asset sustainability over a multi-decade period.

The Program Planning group is seeking an engineer to manage MSD's \$120 million program for reducing combined sewer overflows by utilizing green infrastructure (GI) to reduce storm water runoff volume. The selected candidate would be the program's primary point of contact and would manage a grant program that reimburses developers/owners for qualifying GI project components they build. The individual would also provide oversight and track other MSD managed GI projects. Applicants should have an understanding of MSD accepted GI techniques and designs, strong organizational skills, and be comfortable giving presentations on the program details. Additional experience with MSD's storm water and sanitary sewer systems, rules and regulations, and in developing effective solutions and cost estimates for identified stormwater/wastewater problems is desired.

Qualified candidates must have a Bachelor's Degree in Engineering, preferably Civil, with a P.E. license and 4 years of professional engineering experience.

We offer our employees a challenging career along with an excellent salary/benefits package, convenient location, and free parking. Go to www.stlmsd.com/careers for more information and to apply.

Salary Range

\$66,500.00 – 101,900.00 Annually

Application

Detailed description and employment application is in the Links & Resources Section at the following website location:

www.stlmsd.com/careers

Application deadline is Sunday, November 04, 2018

Missouri Society of Professional Engineers - St. Louis Chapter

2018-2019 Calendar

| Nov-18 | | | | | | |
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| Feb-19 | | | | | | |
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| Apr-19 | | | | | | |
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| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |

- 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:

- November: Lunch - Joint Meeting ASCE (Buechter)
- December: Lunch with Tom Blair MoDOT (Ratzki)
- January: Possible upcoming MSD Program or Program with IEEE
- February: Awards Dinner (Rademacher)
- March: Evening Happy Hour (Hollman)
- April: Tour - Ameren Drones (Black)
- May: Tour - Enterprise Center (Hollman)
- June: Lunch - MSD Tunnels (Ratzki)/ New Officer Installation

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



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

November Joint Luncheon

Tuesday, November 13, 2018

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

Abstract: This Luncheon will highlight two historic local Engineers.

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. Highlights of the presentation include: Mr. Horner’s design of the River Des Peres Drainage Project; His research and technical papers on the subject of rainfall and runoff; His work for St. Louis’ Lambert Field which acquired for Mr. Horner a national reputation as an expert in airports and airport drainage.

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 after completion. In 1976 Leif J. Sverdrup died, his obituary and picture were on the cover of the *St. Louis Post Dispatch* titled, “Gen. Sverdrup Dies; Civic and Business Leader.”

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.

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<https://goo.gl/Z7bd3D>



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

Missouri Society of Professional Engineers

December Luncheon

Thursday December 13, 2018

The Road to Tomorrow?

What Does the Future of Transportation Look Like in Missouri?

Abstract:

What does the future of transportation look like in Missouri? What will funding from Prop D mean to future projects, examples of MoDOT's new safety designs, will autonomous vehicles and hyperloop become part of our daily commute? MoDOT's St. Louis District Engineer Tom Blair will explore these trending topics in transportation and provide insight on:

- transportation funding
- safety initiatives and the state of Missouri roads and bridges
- upcoming projects

About the Presenter:

Tom Blair, PE: Tom Blair is in charge of MoDOT Operations in the St. Louis area. Blair began his MoDOT career in 1993 as a construction inspector in northwest Missouri. His work in recent years has included organizing traffic management during the two-year rebuild of Highway 40 (Interstate 64) and leading the agency's Road to Tomorrow team exploring transportation innovations for the future.

Time, Date, Location

11:30am to 1:00pm, December 13, 2018, at the Engineering Center, 4359 Lindell, St. Louis 63018. Registration starts at 11:30am and lunch is served at Noon. The program will begin promptly at 12:15pm. One-Half (0.5) PDH is available.

Cost

\$20/person, students and members in transition \$5

Registration

Please register and pay online using the link below for reservations by 5:00pm, Friday, December 7, 2018. If you've signed up and can't make it, please cancel by Friday before the meeting or we may have to charge you for the meal.

<https://mspe.org/event-3111312>

Contacts

Michael Buechter, PE, D.WRE, MSPE President
314-768-2555 office
mtbuec@stlmsd.com

Eric Hollmann, PE, Program Chair
314-206-4232 office
Eric.Hollmann@wsp.com



St. Louis Chapter Missouri Society of Professional Engineers

VOLUNTEER OPPURTUNITY

St. Charles Community College is looking for instructors in the following areas; however, we continue you look for other areas and opportunities we might be able to partner.

- Statics (Tu/Th course focused on the analysis of bodies and structures that generally don't move)
- Dynamics (Tu/Th course focused on the analysis of bodies that are generally in motion)
- Circuits I (Tu/Th course focused on primarily DC circuit analysis)
- Intro to Engineering (Friday seminar course where students interact with guest speakers)

These programs are a great opportunity for individuals who have recently retired and/or even for those who are still working to share their knowledge in the field. In general, individuals should have a Master's degree and experience/training in a related field such as Engineering, Physics, Architecture, or Electronics. That said, the requirements are more flexible for the "Intro to Engineering" course since the guest speakers will act as the content experts.

Interested individuals can contact:

Amanda M. Sizemore

Assistant Vice President

Corporate & Community Development

Phone: 636.922.8388

Email: asizemore@stchas.edu



MSPE on Mission and Promotion!

Fredbird here is showing off MSPE involvement with a project for the Missouri State Division of Youth Services.

MSPE is helping the project to have a greater impact in Missouri and getting our name Promoted.



VOLUNTEER OPPURTUNITY



NO EXPERIENCE REQUIRED!

- **Volunteers with both technical & non-technical expertise.**
- **Help us to change lives, change our culture, and change the future!**

EVENT VOLUNTEERS

- **MANY volunteer roles**
- **Judges**
- **Referees**
- **Timers/Queuing**

Learn more about **FIRST®** at
<https://www.firstinspires.org/>

Or Contact:

- Marie Collins mariecollins@att.net
- Nicole Adewale NAdewale@abnacorp.com

| Location | Site (City) | Date | Day | Hours |
|---|------------------|--------|----------|--------|
| Qualifier 1 - Brittany Woods Middle School | University City | Nov-10 | Saturday | 7a-5pm |
| Qualifier 2 - St. Dominic High School | O'Fallon | Nov-10 | Saturday | 7a-5pm |
| Qualifier 3 - Brittany Woods Middle School | University City | Nov-11 | Sunday | 7a-5pm |
| Qualifier 4 - St. Dominic High School | O'Fallon | Nov-11 | Sunday | 7a-5pm |
| Qualifier 5 - Gateway STEM High School | St. Louis | Nov-17 | Saturday | 7a-5pm |
| Qualifier 6 - St. Rose Parish School | Florissant | Dec-01 | Saturday | 7a-5pm |
| Qualifier 7 - Christian High School | O'Fallon, MO | Dec-01 | Saturday | 7a-5pm |
| Qualifier 8 - Wentzville Middle School | Wentzville | Nov-17 | Saturday | 7a-5pm |
| Qualifier 9 - St. Rose Parish School | Florissant | Dec-02 | Sunday | 7a-5pm |
| Qualifier 10 - Christian High School | O'Fallon, MO | Dec-02 | Sunday | 7a-5pm |
| Qualifier 11 - Wentzville Middle School | Wentzville | Nov-18 | Sunday | 7a-5pm |
| Qualifier 12 – MICDS | Ladue | Dec-08 | Saturday | 7a-5pm |
| Qualifier 13 - Berge's Family Girl Scout Program Center | Maryland Heights | Dec-08 | Saturday | 7a-5pm |

Deadline for Registration: Thursday, January 24, 2019

How to Enroll – 4 Ways to Register:

1. **Online** – To register online, go to www.stchas.edu/learnforlife
2. **By Mail** – Complete the registration form, attach your check or money order, and mail to:
SCC, Division of C&CD
4601 Mid Rivers Mall Dr., HUM 103
Cottleville, MO 63376-2865
3. **In Person** – Walk into 103 HUM with completed registration form and payment.
Registration hours:
 - 8 a.m. – 5:30 p.m. Mon-Thurs.
 - 8:30 a.m. – 4:00 p.m. Fridays
 - After-hours drop box in HUM hallway
4. **By Phone** – Call 636-922-8233 during the hours listed above. Telephone registration: VISA, Discover, and MasterCard only accepted as payment.

Name: _____

Address: _____

City, State, Zip: _____

E-mail: _____

Date of birth: _____

Home Phone: _____

Work/Cell Phone: _____

Registration Fee:

\$550 for MSPE & SAME members

\$600 for ASCE, ASME, ASHRAE & IEEE members

\$650 for non-members

Circle one (if applicable):

MSPE / SAME / ASCE / ASME / ASHRAE / IEEE Member

Member Number: _____

- Civil Engineering Refresher
- Mechanical Engineering Refresher
- Electrical Engineering Refresher

SCC
ST. CHARLES COMMUNITY COLLEGE
Division of Corporate & Community Development
Humanities Building, Room 103
4601 Mid Rivers Mall Drive
Cottleville, MO 63376-2865

Professional Engineer Refresher Course



Presented By



Professional Engineer Refresher Course

These review courses are geared toward helping participants pass the Professional Engineer (P.E.) license exam. Spring classes will be held in the fields of:

Civil- *Water Resources, Geotechnical; Transportation, Construction, Structural; Mechanical-Mechanical Systems/Materials, Hydraulics & Fluids, Energy & Power Systems, HVAC/Refrigeration;* and Electrical-*Power*

Course fee includes a three-ring binder, lecture notes, certificate of completion, and CEU's.

It is recommended that participants purchase their discipline's desk reference manual **prior** to the first class. Desk reference manuals can be obtained by going to the following website:

<http://ppi2pass.com>



2019 Spring Schedule

Classes are scheduled to meet on the following Saturday mornings from 8:00 a.m. – noon:

Jan. 26

Feb. 02

Feb. 09

Feb. 16

Feb. 23

Mar. 02

Mar. 09

Mar. 23 (for Civil and/or Make-up)

No class on March 16th

Report to Room 2 08 of the Humanities Building (HUM) on the campus of St. Charles Community College. Park in the Yellow Lot. *Class dates and times are subject to change.*

Registration Fee

MSPE & SAME Members\$550

ASCE, ASME, ASHRAE, & IEEE.....\$600

Non -Members\$650

Proceeds of the course go toward the MSPE Scholarship Fund.

**DEADLINE:
January 24, 2019**

Register by mail, online, or phone
(See back of this panel for details.)

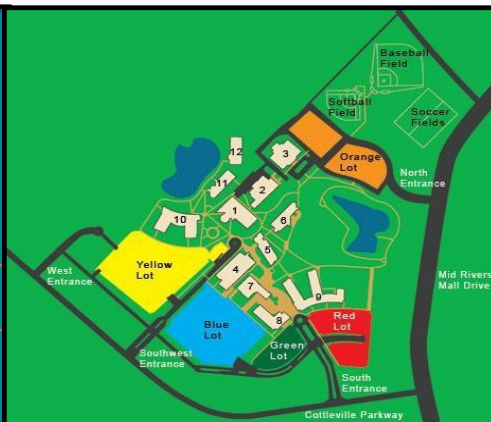
Course content inquiries should be directed to

Lisa Cheng, P.E.

(314) 425-8355 or

lisa.cheng@hdrinc.com

HOW TO LOCATE THE COLLEGE & CAMPUS BUILDINGS



1. College Center
2. Campus Services
3. Child Development Center
4. Fine Arts Building
5. Humanities Building
6. Technology Building
7. Learning Resource Center – Library
8. Student Center
9. Administration Building
10. Social Sciences Building



ST. CHARLES COMMUNITY COLLEGE

www.stchas.edu