



ST. LOUIS ENGINEER

St. Louis Chapter Missouri Society of Professional Engineers

December Joint Luncheon

Thursday December 13, 2018

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

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December 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 – December 2018 President's Report



With the activity of the Holiday Season upon us it can become difficult to stop and count our blessings. And it is even more challenging to maintain our perspective and to be thankful for the simple things in life. Perhaps luckily as Engineers we know not to take for granted many of the things so many in the industrialized world do, from clean water to reliable electricity.

At a local level I was reminded of much of my own good fortune at our November 13 joint lunch with the American Society of Civil Engineers (ASCE). It was a well-attended event with a chance to learn about historic St. Louis Engineers and to visit with many colleagues. I am always grateful when I get to spend time with others who have given their time and energy to organizations such as MSPE and ASCE, this includes many of our current board members and officers. I hope you will join us at our next lunch meeting December 13th (details are in this newsletter) where I am sure many of our inspiring colleagues will join us.

At the state level I have been thankful for the work of MSPE staff that is continuing to increase communications to the membership and industry. The new website is live at www.mspe.org. This site is powered by the Wild Apricot membership software selected by the MSPE Executive Committee and IT Committee that provides streamlined services. This is reducing overhead vendor costs too. Also, all MSPE social media platforms are growing in “followers” and “likes”. As a reminder, MSPE staff manages the MSPE Facebook and LinkedIn accounts and have also created Twitter and Instagram accounts. I suggest you visit these sites if it has been awhile.

At a National level I was not only grateful but inspired by a recent article highlighting NSPE member Katherine Gregory, PE. The retired rear admiral was the first female flag officer in the United States Civil Engineering Corps and former commander of the Naval Facilities Engineering Command Pacific. “All of the knowledge and experience required to have a PE license provides our industry partners some clear signal of our technical expertise,” she says, “so when we’re working on projects together, when we’re negotiating contracts, when we’re working on issues, we have some people who really understand what’s going on with the industry so we don’t feel like we’re at any disadvantage.”

On a personal note this Holiday Season I would point you to one of the great American poets, Ralph Waldo Emerson,

“Cultivate the habit of being grateful for every good thing that comes to you, and to give thanks continuously. And because all things have contributed to your advancement, you should include all things in your gratitude.”

So if you are looking for a way to remember your good fortune and “give back” in the coming year I would ask you to visit the MSPE website or contact me at mtbuec@stlmsd.com. Again, I hope to see you at the December 13th lunch meeting at the Engineering Center on Lindell.

Happy Holidays!

Michael T. Buechter, PE, D.WRE

St. Louis Engineer

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Adam Zuroweste, P.E.
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St. Louis Chapter Officers

President	Michael Buechter, P.E.	(314) 768-2772
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.

Missouri Society of Professional Engineers - St. Louis Chapter

2018-2019 Calendar

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
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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	31		

Mar-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	29	30
31						

Dec-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	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		

Apr-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	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



PRESENTATION ON MSD'S

FY2020 **CAPITAL**
IMPROVEMENT &
REPLACEMENT
PROGRAM

TIME & DATE

3-4:30 presentation
4:30-6 networking
January 22, 2019

PLACE

The Engineers' Club
of St. Louis

RSVP

SLHOLT@stlmsd.com
by January 11, 2018

PRESENTED BY

Rich Unverferth, P.E.
Director of Engineering

COMMENTS FROM

Brian Hoelscher, P.E.
Executive Director

*Beverages during the
networking session provided
by the Missouri Society of
Professional Engineers*

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



St. Louis Chapter Missouri Society of Professional Engineers

January Joint Luncheon

Protecting Your Inventions and Ideas: Intellectual Property Fundamentals for an Engineer

Engineers are fundamentally inventors every day. Many times, the sweat and financial toils of both the employer and employee should be protected in terms of a patent. Mr. Kirk Damman, J.D. a patent attorney at Lewis Rice will shed insight and helpful information for our members to use in protecting Intellectual Property both in the United States and Internationally. The general process of preparing for invention disclosure, identifying a skilled attorney for one's particular technology and interfacing with that attorney will be discussed. Questions will be answered as time permits. Earn 1 PDH for this program.

About the Presenter:

Kirk A. Damman, J.D.: practices in all areas of intellectual property law with an emphasis on helping startup and growing companies begin to manage, license, and gain value from their intellectual property (patents, trademarks, copyrights, and trade secrets) and obtain protection for their most important ideas and products. Licensed to practice in front of the United States Patent and Trademark Office for more than 10 years, Mr. Damman has co-authored two books on patent law and serves as the director of the United States Patent Practice (Patent Agency) degree program at Webster University. He works with clients whose products are as diverse as: circuit and electrical designs; medical devices; computer software and Internet; heavy equipment and manufacturing; alternative energy and fuel; and consumer goods. Mr. Damman is a 1999 graduate for Harvard Law School and member of IEEE. Kirk was selected for inclusion in Missouri & Kansas Rising Stars® 2010 and 2013.

Where: Engineering Club of St. Louis, 4359 Lindell, St. Louis 63018

When: January 17, 2019, 11:30am to 1:00pm. Lunch at Noon and program at 12:15.

Cost: \$20/person or \$5/students

Registration

Please register and pay online using the link below for reservations by 5:00pm, Friday, January 11th, 2019. 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://www.mspe.org/event-3126221>

Contacts

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<https://mspe.org/>

Eric Hollmann, PE, Program Chair
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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





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

15th Annual Fall PDH Days

15 PDH's in 2 days

Satisfies 1-year's PDH requirements

Affordable - \$30 or less per PDH; 1-day and 2-day
registrations available

Registration includes lunch & breaks each day

Lodging \$95 plus tax, cutoff date for group rate is November 30,
2018. Make your reservations by calling 573-635-1234 or
1-800-338-8088.

Registration deadline: Friday, December 7, 2018
Check-in: Wednesday 8:30am, Thursday 7:30am
Programs: Wednesday 9am-6pm, Thursday 8am-4pm

Please see website for full Agenda:

<https://www.mspe.org/resources/Documents/2018%20Fall%20PDH%20Days%20Agenda.pdf>

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.)

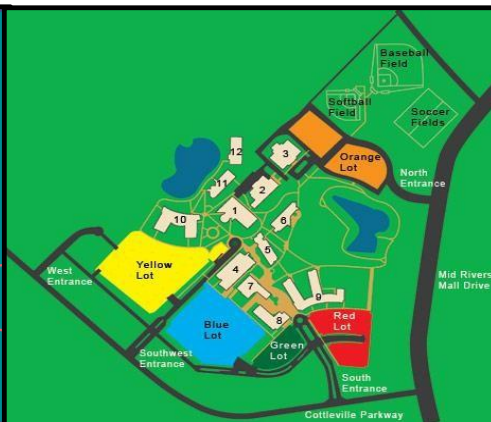
Course content inquiries should be directed to

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