



ST. LOUIS ENGINEER

St. Louis Chapter Missouri Society of Professional Engineers

68th National Engineers Week Reception and Awards Program

Friday February 15th 2019 from 6:30-8:30 PM

RSVP:

<https://mspe.org/event-3194316>

Registration will be closed Tuesday before the event.

2019 Award Recipients

Outstanding PE in Government

Tom Blair

Outstanding PE in Education

Paul Nauert

Outstanding PE in Private Practice

Allen Minks

Engineer of the Year

Ron Black

Young Engineer of the Year

Eric Stauffer

St. Louis MSPE Awards Dinner

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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 – February 2018 President's Report



As you know *National Engineers Week*, or *EWeek* (February 17-23, 2019), is fast approaching! In the *United States*, the celebration of *EWeek* was started in 1951 by the *National Society of Professional Engineers* (NSPE) in conjunction with President *George Washington's* Birthday. President Washington is considered as the nation's first engineer, notably for his survey work. The purpose of *EWeek* is to call attention to the contributions to society that engineers make. It is also a time for engineers to emphasize the importance of learning math, science, and technical skills. If you wish to learn more about NSPE's role in *EWeek* please visit:

<https://www.nspe.org/resources/partners-and-state-societies/national-engineers-week>.

Locally we generally have several events to celebrate *EWeek*. On Saturday February 9th we will help host the 2019 St. Louis Regional MATHCOUNTS Competition. Of course our very own chapter of NSPE will be no exception. Please join us for the St. Louis Chapter 68th National Engineers Week Reception and Awards Program on the 15th of February and celebrate our local award winners. On February 23rd and 24th we will help coordinate the SciFest Engineering Expo at the Saint Louis Science Center. So I encourage you to take a minute to celebrate your profession and for the young people in your life to emphasize the importance of learning math, science and technical skills. Who knows maybe you will light a spark in the next George, or Martha, Washington!

Also note we have a new Chapter logo! The new logo is part of a statewide initiative and represents efforts to heighten coordination between the local, state and national parts of MSPE/NSPE. The new logo is below, in blue and black:



If you have any questions about anything related to *EWeek* or wish to become more active in MSPE please call or email me, Michael T. Buechter at 314-768-2772 or mtbuec@stlmsd.com.

Happy *EWeek*!
Michael T. Buechter, PE

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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

2019 Calendar

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
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						

May-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	

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				

Jun-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						

- 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:

- 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



MATHCOUNTS[®]
COMPETITION SERIES
EST. 1983



Volunteers Needed! for 2019 MATHCOUNTS Competition



I am searching for volunteers for the 2019 St. Louis Regional MATHCOUNTS Competition. The date of the competition is Saturday, February 9, 2019 and it will be held at the Florissant Valley Campus of St. Louis Community College. Volunteer positions range from 7:45am to 2:00pm. Please reply if you are available and willing to donate your time. Also, in your reply please include your range of availability and/or if you have a specific position you would like to be in: from unpacking to the MC proctor.

MATHCOUNTS provides fun and challenging math programs for middle school students across the United States. The organization helps students increase their academic and social opportunities through club and competition events revolving around mathematics. These events help students develop a foundation for success in science, technology, engineering and mathematics.

The top individuals and the top teams from the St. Louis Regional Competition are invited to compete at Missouri State Competition in Columbia, MO. Results at the state level determine who earns the honor of representing their state at the National Competition.

Giving these students a fun environment to show of their knowledge is really what STEM outreach is all about!

If you would like to learn more about MATHCOUNTS or would like to get involved, please contact Eric Stauffer at emstauffer@burnsmcd.com.

Thanks for your time.

April Luncheon



Drones and Their Practical Application

Thursday, April 18, 2019

Abstract: Luncheon to discuss Ameren's innovative and system reliability focused approach to deploying drones as a daily operation. There will be a demonstration (weather permitting).

Ameren is deploying and utilizing unmanned aerial technology in multiple business lines with a focus on cost savings, reliability, safety and customer satisfaction. Drones are being used daily throughout Ameren's service territory to inspect power lines, vegetation, gas and generation facilities with a high degree of success. Benefits are even being seen in storm restoration, where drone crews are able to assess damage in difficult to access areas in a fraction of the time a foot patrol would take.

About the Presenter:

James Pierce, GISP, sUAS – Supervisor, Unmanned Aerial Systems Operations, Ameren

James Pierce is the supervisor of Ameren's Central UAS Department. James brings with him nearly 20 years of experience in engineering, remote sensing/GIS, aerial photography and project management to the drone team, with an undergraduate degree in geography, multiple certificates in computer programming, database design, cartography, drafting, masters courses in mining engineering and a Part 107 drone pilot certificate from the FAA.

James has continuously ushered innovation with drones culminating in the present day commercialized, program driven department that it is today.

Time, Date, Location

11:30am to 1:00pm, April 18, 2019, 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 12:15 pm. One (1) PDH is available.

Cost

\$20/person, students and members in transition \$10

Registration

Please register and pay online using the link below for reservations by Friday before the event. 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-3244964>

Contacts

Michael Buechter, PE, D.WRE, MSPE President Eric Hollmann, PE, Program Chair
314-768-2555 office 314-206-4232 office
mtbuec@stlmsd.com Eric.Hollmann@wsp.com
<https://mspe.org/>



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 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



NSPE Fellow Nominations

Do you know of a St Louis Chapter NSPE member who should be nominated for NSPE's next class of Fellow? Fellow is a membership grade that honors professional engineers who have demonstrated Exemplary service to the profession, the Society, and community.

Requirements for designation include holding at least one elected office at the Chapter, State or, National level and have had active involvement at the national level.

The NSPE Fellow Program is a national program intended to recognize deserving professional engineers who have demonstrated long term professional service at the chapter, state and national levels of NSPE. The NSPE Board of Directors established the Fellow recognition program to honor those licensed members who have demonstrated exemplary service to the profession, the Society, and the community.

Involvement in NSPE must include holding at least one elected office at the chapter, state, or national level and must also include service at the national level of NSPE in order for nominees to be considered. National level service can include a number of activities such as regional service, committee/task force chair or member. While it is desirable to have held an office at the National level, importance is placed on long term active involvement. The Council of Fellows Executive Committee endeavors to treat each nomination on its own merits and tries not to restrict itself by generating a list of activities that would qualify. However, it is recommended that the nominee have ten (10) years or more of active service and involvement at all levels, i.e., national, state chapter/local.

Deadline for nomination is February 1, 2017. Make your suggestion for a nomination to Mike Buechter at MTBUEC@stlmsd.com, for consideration as one of Missouri's nominees for Fellow.

More information can be found at:

<https://www.nspe.org/membership/about-nspe/leadership/fellow-membership-grade>





St. Louis Chapter Missouri Society of Professional Engineers

Volunteer Opportunity—HELP WANTED

Eastern Missouri FIRST LEGO League Championship

The Championship was rescheduled for Saturday, February 2nd at Florissant Valley. Some of the judges previously schedule are not going to be able to make the February 2nd date, so if you are now able and willing, please sign up through the FIRST website for this rescheduled event.

13 judges are still needed:

- 6 Core Value Judges
- 4 Project Judges
- 3 Robot Judges

If these spots do not get filled, they will have to **cancel the event**, which would be a terrible let down to the teams who were already "pumped up" to compete in January 13th and then had to wait till February 2nd to show off their project, robot and core values.

If you can and will be willing to judge PLEASE contact Marie Collins at:
mariecollins3125@att.net





STL TECH TALENT & JOB FAIR

With a thriving startup scene, a growing ecosystem of cutting-edge defense contractors, and nationally recognized strengths in fintech and geospatial technologies, the Gateway City is the perfect place to explore careers in tech. Those seeking internships, full and part-time work are welcome to attend.

Wednesday, Feb. 27, 2019
2-6 PM

T-REX Innovation Conference Center
911 Washington Avenue
St. Louis, MO

Register at <https://bit.ly/2AUk93J>

Job seekers: Email zekitaa@gatewayglobaldl.com with your resume.

Vendors: Email madeleine@downtowntrex.org with a list of job openings or desired skills.

Special MSPE Membership Meeting

Special MSPE Membership Meeting Scheduled for March 2, 2019 at the MSPE Office to Vote on Proposed Bylaw Amendments

JEFFERSON CITY - MSPE President Michael Purol has announced a special membership meeting will be held on March 2 for the sole purpose of considering proposed by-law amendments. This is the rescheduled meeting for the one postponed in January for inclement weather.

Over the last several months, the MSPE Bylaws Committee, crafted amendments to the existing society bylaws to comply with revisions to the NSPE Bylaws in the Spring of 2018. The new membership model became effective on July 1, 2018. MSPE contractually became an integrated society at that time. Revisions in the bylaws are required to ensure consistent policy between the MSPE bylaws and the NSPE Bylaws.

Per Article XVII of the bylaws, the MSPE Board of Directors can approve amendments to "administrative" sections of the bylaws. The MSPE Bylaws require the Membership approve Amendments to sections labeled "governance". On October 12, the MSPE Board of Directors approved the "administrative" changes. During the same meeting, the Board of Directors approved holding a special membership meeting for the purpose of the membership voting on the "governance" amendments. This action satisfies the MSPE Article IV, Section 2 Bylaw requirement to call a special membership meeting.

Meeting details are as follows:

Event: MSPE Special Membership Meeting

Date: Saturday, March 2, 2019

Time: 9:30 AM

Location: MSPE Office

200 E. McCarty Street

Jefferson City, Missouri

A vote in favor approves the proposed changes.

A vote against disapproves the proposed changes.

[Please click here for proposed bylaws.](#)



THE ASCE ST. LOUIS SECTION AND EWRI PRESENT
2019 Environmental & Water Resources Institute Spring Seminar

WATER, WATER, EVERYWHERE

Join EWRI for an informative ASCE/EWRI-sponsored seminar addressing current and emerging water-related topics in our region including drinking water, stormwater, and wastewater.

Friday, March 8, 2019

Registration 7:30 AM to 8:15 AM

Program 8:15 AM to 3:45 PM

6 PDHs provided

Program TBA

Continental Breakfast and Lunch

Included

Cost:

\$70 for EWRI Members

\$100 for Non-members

\$30 for Students

***Online Registration available at the link
below:***

[Register HERE](#)

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07eg1ljrn63ac6f6c4&oseq=&c=&ch=>

Questions?

Jiaman Xu

ASCE/EWRI Spring Seminar Committee Chair

314-880-4431

jxu@civildesigninc.com

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.)

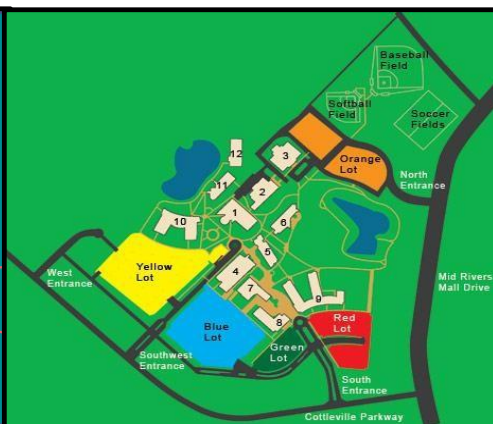
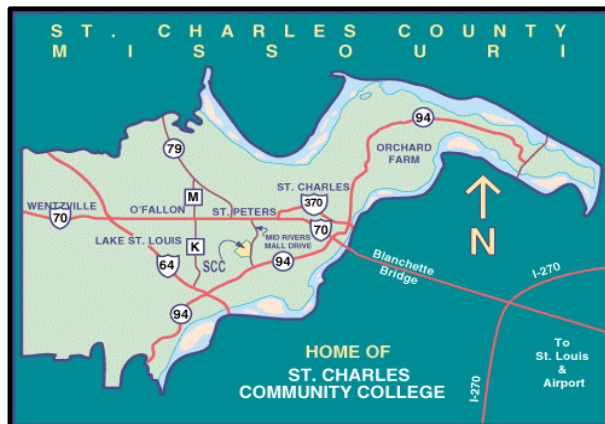
Course content inquiries should be directed to

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



St. Louis Chapter Missouri Society of Professional Engineers

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Erin Jearls, P.E.
Jennifer Kuchinski, P.E.
Jeremiah King, P.E.
Marc Eshelman, P.E.

State Directors:

Jeff Hoevelmann, P.E.
Breck Washman, P.E.
Tom Ratzki, P.E.



Dear Prospective Exhibitor:

It is time to gear up for the **SciFest Engineering Expo** at the **Saint Louis Science Center** (www.slsc.org/event/scifest-engineers-week-expo/2019-02-23/) in celebration of **National Engineers Week (EWeek)**. This is an annual event that educates people about the diversity and importance of engineering by increasing understanding of and interest in engineering and technology careers. More information about EWeek is available at www.discovere.org.

The **MSPE St. Louis Chapter** (www.mspe.org/st-louis-chapter) is again coordinating this event with the Saint Louis Science Center and we are inviting you to participate as an Exhibitor to help promote the engineering field through an educational activity or presentation that focuses on engineering. The event is scheduled for **Saturday, February 23, 2019** from 9:30 a.m. to 4:30 p.m. and **Sunday, February 24, 2019** from 11:00 a.m. to 4:30 p.m. as a finale to EWeek.

Register as an Exhibitor for the SciFest Engineering Expo by following this link: <https://goo.gl/forms/vepanvkvqUxa9E8z1>. Please don't hesitate to contact me if you have any questions or require additional information.

In previous years, organizations such as AABE, ASCE, ASPE, Baxter-HTE Technologies, Boeing, Bricks 4 Kidz, Construction Forum Education Foundation, Engineering Center of St. Louis, Essex, FIRST Robotics, FLL, FTC, GBS, Geotechnology, IEEE, IMEG, Junior Code Academy and GlobalHack, Lil Monster Trucks, Maryville Science and Robotics Program, Missouri S&T, Mizzou, NSBE, NSS Saint Louis Space Frontier & Cyan React, Power Engineers, Ranken Technical College, ROBOMO, SAME, SHPE, SIUE, SLU, SME, St. Louis Carpenters Joint Apprenticeship Program, Spectra, STLCC, SWE, USACE, USCG, Univ. of Illinois, Wash University, & Workman Publishing have brought hands-on items that appeal to children and young adults.

We would like to thank again those who participated last year. If you did not participate last year, please consider participating this year. This event is an excellent way to introduce the wonders and power of engineering to a diverse audience. We look forward to hearing from you to make this event a success.

Thank you in advance for your participation.

Sincerely,

Erin Jearls, P.E.

HDR

Ph: 314-425-8330

Email: erin.jearls@hdrinc.com





Volunteer Opportunity!!!

The MSPE St. Louis Chapter coordinates the SciFest Engineering Expo event at the Saint Louis Science Center every year in celebration of National Engineers Week (EWeek). This year MSPE will be hosting an exhibit at the Science Center on **Saturday, February 23, 2019 from 9:30 a.m. – 4:30 p.m. and Sunday, February 24, 2019 from 11:00 a.m. – 4:30 p.m.** Volunteers are needed to help assist in the MSPE exhibit. Volunteer shifts are in two hour time slots (see table below). Please contact Erin Jearls at erin.jearls@hdrinc.com if you are interested.

The ever popular MSPE Exhibit will be the same as in previous years. It is comprised of a ramp, a ball at the top of the ramp, and a Buzz Lightyear figurine at the bottom of the ramp. The volunteers distribute a set number of supplies (rubber bands, tape, paper, paper clips, & pipe cleaners) to each participant. The objective is to have participants build a structure out of the given supplies that will divert or stop the ball rolling down the ramp (aka “the asteroid”), and as a result avoid hitting Buzz Lightyear located at the bottom of the ramp.

Available time slots include:

MSPE Exhibit Time Slots	Saturday, February 23, 2019		Sunday, February 24, 2019	
9-11 a.m.			N/A	N/A
11-1 p.m.				
1-3 p.m.				
3-4:30 p.m.				

