

ST. LOUIS CHAPTER MISSOURI SOCIETY OF PROFESSIONAL ENGINEERS

ST. LOUIS ENGINEER

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Drones and their Practical ApplicationThursday, 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). 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.

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.

Here is a link to a recent article: https://www.bv.com/news/ameren-successfully-completesindustry-leading-60-mile-drone-flight-over-transmission-lines

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:

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

INSIDE ISSUE..

PRESIDENT'S MESSAGE

MSPE St. Louis Chapter - February 2018 President's Report

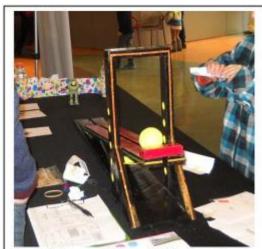


Hopefully you were able to take a break from the weather and enjoy EWeek! Founded by NSPE in 1951, EWeek (February 17–23, 2019) is dedicated to ensuring a diverse and well-educated future engineering workforce by increasing understanding of and interest in engineering and technology careers. Today, EWeek is a formal coalition of more than 70 engineering, education, and cultural societies, and more than 50 corporations and government agencies. EWeek continues to promote recognition of the importance of a technical education and motivates youth, to pursue engineering careers.

Myself I was lucky enough to enjoy several EWeek events. First, was our Section's Annual Award Dinner held at the Engineering Center on February 15th. The event was surprisingly well attended and enjoyed by many hearty souls despite the poor weather. Much gratitude is due to Mr. Michael Rademacher for his work in organizing this inspiring event.

I also tried to save Buzz Lightyear at the St. Louis Science Center the weekend of 23rd! This was part of our Chapter's participation in the SciFest Celebration of National Engineers Week. Ms. Erin Jearls of our Chapter provided the leadership for a full weekend with participation from local companies and colleges ranging from the U.S. Army Corp of Engineers to Missouri University of Science & Technology. I understand that weekend had near record attendance and all of us with children in the house know that if Emperor Zurg defeats Buzz things will go "downhill" quickly!

Technically preceding EWeek but well within the mission of EWeek our Chapter participated in the St, Louis MATHCOUNTS competition. If you ever need some renewed excitement about today's youth, or a bit of humility, there are few venues more suitable, the skill of the young participants is beyond surprising. And again another member from our Chapter led the event, a Mr. Eric Stauffer also winner of our Young Engineer of the Year Award.



To Infinity and Beyond! Saving Buzz Lightyear at the SciFest Celebration of National Engineers Week

I am often asked to speak to students at various functions.

Personally I have found that stories of outstanding engineers, James Eads of course being one of my favorites, are well received and according to feedback from the students a welcome change from the normal, "Are you good at math?" However when looking for inspiration after a week like this I need only to our MSPE roster for folks like Michael, Erin and Eric!

So hopefully you had a wonderful EWeek and can emerge with renewed excitement. 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 Belated EWeek!

Michael T. Buechter, PE, D.WRE, F.EWRI

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

St. Louis Engineer

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Missouri Society of Professional Engineers - St. Louis Chapter 2019 Calendar

Mar-19						
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31						

May-19						
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Apr-19						
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Jun-18						
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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



MARCH CHAPTER HAPPY HOUR

Come join Missouri Society of Professional Engineers (MSPE) for an evening of fun and fellowship.

Where: Schlafly Bottleworks (7260 Southwest Avenue, Maplewood, MO 63143)

When: Thursday, March 21st 2019 4:00 PM - 6:00 PM.

Please help us encourage membership to the MSPE by inviting potential members. Attendees will be provided one courtesy drink on behalf of MSPE, cash bar will be available afterwards.



Contacts:

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Recognizing Missouri's Newly Registered
Professional Engineers
1:00 p.m., Friday, March 8, 2019
Capitol Rotunda, Jefferson City, MO



Keynote Speaker: Lieutenant Governor Mike Kehoe

For more information, see www.mspe.org or contact MSPE Membership Coordinator Stacey Meyer at smeyer@mspe.org.



MATHCOUNTS St. Louis Chapter Competition

On February 9th, MSPE St. Louis Chapter hosted the annual MATHCOUNTS St. Louis Chapter Competition at St. Louis Community College in Florissant Valley. As always this event was well staffed and well attended. Nearly 20 schools attended the competition with over 120 students coming to compete. We had around 20 volunteers from over 10 companies to help grade nearly 10,000 questions (every question must be graded twice). Thank you to all who volunteered as clearly there is no way to do it without you. If you have never seen these students complete such complicated questions in such a short amount of time, we highly recommend you volunteer at this event in the future. Our local middle school students truly are amazing.







VOLUNTEER OPPURTUNITY

<u>St. Charles Community College</u> 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



MSPE State MATHCOUNTS Competition

Saturday March 2, 2019



MSPE's 2019 State MATHCOUNTS Competition is being held March 2, 2019 at Missouri S&T in Butler-Carlton Hall. Butler-Carlton Hall is located southwest of Pine Street and 16th Street in Rolla, Missouri. Parking is available for free at some locations.

Please consider volunteering!

Registration begins at 8:00 AM and the program will wrap up around 3:00 PM. Breakfast and lunch will be provided for volunteers.

Volunteers - Contact: Josh Lehmen at <u>jlehmen@ess-inc.com</u> or (573) 694-2919

Please specify what time you will be able to volunteer and if you would like to proctor, grade, or enter scores. Additional details will be sent out closer to the competition.

Further details here: https://mspe.org/resources/Documents/Mathcounts%20-%20State%20Volunteers%20-%202019.pdf

NOMINATIONS FOR MSPE ST. LOUIS CHAPTER LEADERSHIP POSITIONS 2019-2020

The Nominating Committee is pleased to announce the following nominations for the 2019-2020 Governing Board of the St. Louis Chapter of MSPE:

Secretary: Mike Rademacher

Chapter Directors: Lisa Cheng, Bently Green

State Directors: Kathy French, Tom Ratzki

In accordance with the Section Bylaws further nominations may be to the nominating committee by petition signed by 10 percent of the members eligible to vote or 10 such members, whichever is greater. The deadline for submitting further nominees is April 1, 2019. Nominations should include a resume or biographical sketch.

Additional information including a description of the Chapter structure, as well as descriptions and requirements for each open role are provided in the St. Louis Chapter Leadership Manual:

https://mspe.org/resources/Documents/ st louis chapter leadership manual 2018 2019.pdf

Questions or nominations should be submitted to Josh Crews: joshua.crews@Bayer.com



MSPE-STL Chapter Award Winners

The St. Louis Chapter of MSPE held their annual awards banquet on February 15th honoring local Professional Engineers who have made significant contributions to the mission of MSPE. The chapter also awarded three scholarships to rising high school seniors. See below for a list of award recipients.



2019 MSPE-STL Chapter Award Winners. From left to right:

Travis Lowe, Michael Esparza, Ron Black, Thomas Blair, Paul Nauert, Eric Stauffer, Allen Minks, Michael Buechter (MSPE-STL Chapter President).

Scholarship Recipients:

Julia Behlmann-Lafayette High School Montel Gbewonyo-Marquette High School Michael Esparza-Festus High school

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 proposedbylaws.



Missouri University of Science and Technology NSPE Talk

MSPE members Erin Jearls (HDR) and Jennifer Kuchinski (WSP), along with Engineering Center of St. Louis member Everett Litton (WSP), spoke with Missouri University of Science and Technology ASCE chapter members Wednesday evening, January 30th, 2019, regarding the merits of being an active member of MSPE. Erin explained that, in many ways, MSPE (and NSPE, on a national level) serves as an umbrella professional organization to a number of affiliated professional engineering organizations, protecting the profession through legislative activism while unifying our many diverse skill sets through a variety of professional community engagement activities. Erin shared with the students the history of MSPE as well as the variety of ways MSPE supports and promotes the profession throughout the state. Erin offered example programs such as MathCounts, Engineers' Week STEM Science Center educational stations, and even the PE Refresher Course aimed at helping preparing engineers about to take the PE exam for licensure.



Erin Jearls and Everett Litton presenting to the Missouri S&T ASCE student chapter.

Meanwhile, Everett and Jennifer provided testimonials of what membership in professional organizations have meant to their careers.

The evening was concluded with Erin, Jennifer and Everett presenting on individual projects that were meaningful to each on a personal level as well as how each project ultimately benefitted from the networking skills gained by each professional through organizations such as MSPE. Erin presented on an MSD waste water treatment plant project. Erin and Everett combined to present on a large tunneling program, delving into geotechnical and tunneling factoids of the program. Lastly, Jennifer presented on an airport project in which she cut her teeth early in her career and another to demonstrate the amount of communication and coordination with a variety of professional engineers necessary to successfully complete a typical project.

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 3 I 4-880-443 I

jxu@civildesigninc.com