

Celebrate Engineering during E-Week

EWRI St. Louis Spring Symposium next month



ASCE
ST. LOUIS SECTION

THE **ARCH**

FEBRUARY 2024





February 2024 Newsletter

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*The Arch February cover:
Caroline Elliot (USGS)*

Upcoming Events

February

- 11 - Intl. Day of Women & Girls in Science
- 13 - G-I STL Monthly Meeting
- 14 - Valentine's Day
- 18 - Engineers Week
- 22 - EWRI Monthly Speaker Series
- 24 - SciFest Engineering Expo

March

- 8 - EWRI Spring Symposium
- 13 - YMG Blues Game
- 14 - PI Day
- 17 - St. Patrick's Day
- 19 - Surveyors Week
- 27 - YMG Webinar

April

- 7 - World Health Day
- 8 - National Robotics Week

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From the President

I hope you are all surviving the winter chill. While February is one of the coldest and the shortest month of the year, it is one of the busiest for ASCE! This is because Engineers Week is happening February 18-24 and there are plenty of ways to celebrate our profession.

The Engineering Club of St. Louis will host the 2024 Engineers Week Luncheon on Tuesday, February 20th at the Clayton Park Plaza. Rhona Hamm-Niebrugge, Director

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of St. Louis Lambert International Airport, will be the guest speaker. This luncheon is always a great event! It's a good place to meet and network with new engineers as well as run into old colleagues.

The Engineering Center will follow up Tuesday's luncheon with 2024 Discovery Fair on Wednesday, February 21st from 4:00-7:00 pm at the Engineers Club. This event is geared to introduce engineering to high school and middle school students.

Engineers Week will wrap up with SciFest: Engineering Expo at the Saint Louis Science Center on Saturday, February 24th from 9:30-4:30pm. ASCE St. Louis Section will again participate in this event with a display and we are looking for volunteers to help! This event is a great opportunity to introduce civil engineering to young minds. I participated last year and thoroughly enjoyed the experience. If you are willing and interested to participate, please reach out to me via email or at 618-301-7309. If you aren't able to help with our display, consider bringing a child in your life to the event and open their mind to the world of STEM.

Engineers Week was established by the National Society of Professional Engineers in 1951 to coincide with George Washington's birthday on February 22. Our country's first president is also one of its first engineers. Washington was a surveyor and mapmaker during the French & Indian War. He was also appointed the first engineering officers to the U.S. Army during the American Revolution.

While civil engineering has a great history that includes our Founding Fathers, DiscoverE (formerly National Engineers Week Foundation) has made the theme of 2024 Engineers Week, "Welcome to the Future." The engineering projects that we take on are constantly shaping the future of our communities. We shouldn't forget that we also have the opportunity and responsibility to help shape future generations of engineers by introducing STEM to young people. Engineers Week is the perfect time to do just that!

Christopher Toenjes

2024 St. Louis Section President

2024 Engineers Week

"More than a week-long event,
Engineers Week is a year-round
commitment to making a difference"



(DiscoverE).

Happy Engineers Week, ASCE STL!
Check out downloadable promo resources for engineering outreach events and activities during February!

[#nationalengineersweek](#)
[#engineersweek](#) [#engineers](#)
[#stemeducation](#) [#engineeringisfun](#)

Engineers Week -
DiscoverE

2024 Multi-Region Leadership Conference (MRLC) in Kansas City

ASCE St. Louis Section leaders, younger members, and student members took on the 2024 Multi Region Leadership Conference (MRLC) in Kansas City mid-January, representing our Section and developing leadership and professional skills to better serve! While KCMO was frigidly cold outside, our leaders enjoyed the Workshop for Section, Branch, and Institute Leaders (**WSBIL**), the Central Region Younger Member Council (**CRYMC**), and Workshop for Student Chapter Leads (**WSCL**) - providing training and support for ASCE leaders at all career stages. [#mrlc24](#) [#mrlc2024](#)



(2nd, L-R:) Z. Hill, M. Cox, B. Hamel, J. Mette, B. Pool, N. Trunko, M. Voissem. (1st, L-R:) L. Gray, M. Geldert-Murphey, M. Rettig, N. Witushynsky.





(1st:) Group photo of CRYMC attendees. (2nd, L-R:) B. Pool, M. Cox, J. Mette, M. Stukel, B. Hamel. (3rd:) ASCE STL formally receiving 2024 Outstanding Website Award from President Geldert-Murphey. (4th:) N. Witushynsky, M. Rettig.

2nd Annual Engineer's Day in Jefferson City

On January 31st, ASCE St. Louis and Kansas City Sections teamed up with ACEC, APWA, MSPE, for the 2nd Annual "Engineer's Day at the Missouri Capitol" event in Jefferson City. A whopping 127 engineers from across the Show-Me State joined together to speak up and help shape the future of infrastructure in Missouri! The day kicked off with remarks from State Representatives Bob Bromley, Donnie Brown, Del Taylor, Don Mayhew, and John Voss in the Capitol Rotunda - all of whom have an engineering background.

Participants had time to meet with with their state senators and representatives by themselves or in groups. We were then honored to meet with Governor Mike Parson and celebrate all the infrastructure funding wins during his terms as governor. With his leadership, we've seen historic funding levels that translate to replacing and repairing both rural and urban bridges and roads across the state. It was a great day to visit with so many colleagues across the four organizations and engage first-time visitors with their elected officials.

To learn more about the Section's government relations programs, reach out to Government Relations Chair Dennis Boll or State Advocacy Captain Alison Graves!
[#advocacy](#) [#protectthePE](#) [#governmentrelations](#)



(Above:) Missouri ASCE members S. Gallagher (KC), A Graves, S. Erter, N. Witushynsky, D. Hotson (KC), M. Geldert-Murphey, D. Boll.



(Above:) Governor M. Parson.
(Below:) Members meet with Senator Tracey McCreery.



Younger Members Group (YMG)

2024 is upon us! Join our Younger Members in their quest to bridge the gap between student members and young professionals at various happy hours and events!

[#YoungerMembers](#)
[#ASCEMadeMe](#)

(R:) ASCE STL YMG kicks off 2024 at Grüv Bistro & Wine Bar in Belleville on January 31.



YMG NIGHT AT THE BLUES GAME



ASCE ST. LOUIS SECTION
YOUNGER MEMBER GROUP



Wednesday March 13th | 6:30 PM | \$25 Ticket

Enterprise Center 1401 Clark Ave, St. Louis, MO 63103

Join the ASCE Younger Members Group for a night out at a Blues hockey game! Seats are in mezzanine section 321. Tickets will be transferred to you before the game on the Blues app. All ages, friends, & significant others welcome!

There is no deadline to register but there is a limited amount of tickets. They will be issued on a first come, first serve basis. Click link below or scan QR code to buy tickets.



REGISTER HERE



Other upcoming YMG events

- [Road to PE Licensure Explained](#) Wed, March 27 @ 6:00pm
- [April Happy Hour](#) Thu, April 11 @ 5:30pm
 - Westport Social

- May Happy Hour
 - The Kitchen Bar (Foundry)
- June Happy Hour

Mon, May 6 @ 5:30pm

TBD



Younger Members Chair
Alicia Padilla
alicia.m.padilla4@gmail.com

Institutes & Technical Groups

Environmental & Water Resources Institute (EWRI) St. Louis Chapter



**ENVIRONMENTAL &
WATER RESOURCES
INSTITUTE**
St. Louis Chapter

**WATER
INSTITUTE**
SAINT LOUIS UNIVERSITY

EWRI of ASCE - St. Louis Chapter
2024 Environmental & Water Resources Institute Spring Symposium

WATER, WATER, EVERYWHERE

You are invited to attend a full-day educational symposium and workshop for professional development and to learn about water-related technical topics.

Friday, March 8, 2024

Technical Program 8AM to 4:30PM, Registration/Breakfast starts at 7:30AM

Location:

Pere Marquette Gallery at
DuBourg Hall
Saint Louis University
221 N Grand Blvd, St.
Louis, MO 63103

Cost:

Students \$10
ASCE Members \$90
Non-Members \$120

Registration will include:

6 PDHs
Continental Breakfast
Lunch
Free Parking at Laclede Garage

ONLINE REGISTRATION:

<http://tinyurl.com/mr2zhd9e>



PRESENTATION TOPICS INCLUDE:

Floodplain mapping
in St. Louis County

MSD Specification Updates
Stormwater and Wastewater Rate

Levee Safety Guidelines

401/404 Permitting

Flood Misconceptions

Local Case Studies on Flood
Reduction and Wastewater
Treatment

For more information, please contact:

Jiaman Xu, PE, ENV SP, PMP
ASCE-EWRI St. Louis Chapter, Chair
ewristlchair@gmail.com



American Society of Civil Engineers
 Environmental and Water Resources Institute
 St. Louis Chapter
 2024 Spring Symposium Program
 Friday, March 8
 Pere Marquette Gallery at DuBourg Hall, Saint Louis University
 221 N Grand Blvd, St. Louis, MO 63103

Start	End	Presenter	Title	Duration
7:30 AM	8:00 AM	Breakfast and Sign-In		0:30
8:00 AM	8:15 AM	Welcome, Jiaman Xu, PE, ENV SP, PMP, EWRI St. Louis Chapter Chair/Civil Design, Inc		0:15
8:15 AM	8:45 AM	Elise Ibendahl, PE, PMP, F.ASCE, CFM, Jacobs	Flooding to Renewal: Brentwood Bound Flood Mitigation	0:30
8:45 AM	9:45 AM	Andrew Schranck, PhD, PE, Lochmueller Group Colin Schroeder, PE, Lochmueller Group	small Facility BIG Lessons Lessons Learned from Accelerated Design and Construction of Improvements to a Small Extended Aeration Wastewater Treatment Plant	1:00
9:45 AM	10:00 AM	Break		0:15
10:00 AM	10:45 AM	Samantha Hollenberg, U.S. Army Corps of Engineers Chad LaMontagne, U.S. Army Corps of Engineers	401/404 Permitting	0:45
10:45 AM	11:30 AM	Sydney Roberts, CFM, MO SEMA and Stephen Noe, PE, WSP	St. Louis County and City Regulatory Flood Product Updates - Engineering Analysis - Stakeholder Engagement - Implementation of Regulatory Criteria	0:45
11:30 AM	12:15 PM	Gene Rovak, PE CFM, F.ASCE, Horner & Shifrin Engineers	Common Flood Misconceptions: "The problem ain't what you don't know, it's what you know that ain't so"	0:45
12:15 PM	1:15 PM	Lunch		1:00
1:15 PM	2:00 PM	Jamie McVicker, PE, U.S. Army Corps of Engineers	National Levee Safety Guidelines: Showcasing best practices for managing levees in an uncertain future	0:45
2:00 PM	2:45 PM	Dr. Amanda Cox, Saint Louis University	Machine Learning Tool for Evaluating Reservoir Capacity Loss due to Sedimentation	0:45
2:45 PM	3:00 PM	Break		0:15
3:00 PM	4:00 PM	Brian Hoelscher, PE and Michael Buechter, PE, Metropolitan St. Louis Sewer District	MSD Specification Update and Proposed Stormwater and Wastewater Rate	1:00
4:00 PM	4:05 PM	Closing, TBD		0:05



EWRI St. Louis News

EWRI ST. LOUIS MONTHLY SPEAKER SERIES EVENT

The St. Louis Section of EWRI is pleased to announce our monthly webinar **on Thursday, February 22, 2024 from 12:00 pm-1:00 pm Central Time.**

This presentation will be broadcast live over a webinar. Registration is free to ASCE members. **Advance registration is required by noon, Tuesday, February 20, 2024.** Please register online at the following link:

[EWRI February 2024 Speaker Series Presentation](#)

Registrants will receive detailed login and dial-in information prior to the event.

The Great Rivers Ecological Observatory Network (GREON™): Lessons learned from the first 10 years of automated water quality monitoring.

The National Great Rivers Research and Education Center (NGRREC) initiated a continuous water quality monitoring effort in 2013 called the Great Rivers Ecological Observatory Network (GREON™). Each GREON unit collect the following water quality parameters: Temperature, specific conductance, turbidity, dissolved oxygen, Total chlorophyll, cyano bacteria, and fluorescing dissolve organic matter (fDOM). Data from the GREON units was regularly retrieved and stored on the Great Lakes to Gulf Virtual Observatory (GLTGVO). This presentation will discuss the lessons learned regarding the deployment of free-floating water quality monitoring platforms in lotic systems. Specific deployment sites will be discussed including how water quality data form the units has been used. The project is currently undergoing transition into a second phase that will be based on lessons learned from the first 10 years of deployment.

SPEAKER

Dr. John Sloan



Dr. John Sloan is Project Leader of the Watershed Science program at the National Great Rivers Research and Education Center (NGRREC) in East Alton, Illinois. His research focuses on strategies for monitoring and reducing the flow of nutrients and sediments from the landscape into the rivers, streams and lakes of the Mississippi River basin. Prior to arriving at the National Great Rivers Research & Education Center in August 2012, he was an Associate Professor of Environmental Soil Science with Texas A&M University in Dallas, Texas. John was raised on a family farm in in the Illinois River Valley in Central Illinois where his father was an early adopter of various state and federal conservation programs. He completed B.S. in agricultural science from the University of Illinois, followed by an M.S. in soil science from Texas A&M University and a Ph.D. in environmental soil chemistry from Oklahoma State University. Between his B.S. and M.S. degrees, he served three years in the United States Peace Corps in Costa Rica, where he met and married his wonderful wife, Maritza Estupinián Duarte.

Thank you to our joint seminar sponsor, **EDM Incorporated and Southern Illinois University Edwardsville (SIUE)!**

Please contact **Rohan Benjankar, PhD** (rbenjan@siue.edu) with any questions, if you are interested in presenting, or have an idea for a topic.



GEO-
INSTITUTE
St. Louis Chapter

G-I St. Louis teams up with AEG for Happy Hour

After a successful Summer Social Event, G-I St. Louis Chapter linked arms once again with AEG St. Louis Chapter to cohost a free winter social event on January 11th for members! Around 40 professionals and students convened under the massive Armory STL roof to network, enjoy drinks and great entertainment!



February Monthly Meeting

Join G-I STL at their upcoming monthly meeting. Everyone is welcome; please contact Zachary for information!

Join via MS Teams

When: Tues, February 13th, at 7:30am

Where: Virtual via Microsoft Teams

ID: 220 284 718 324
Pass: Xi7w8R

Call for Topics

Geo-Institute St. Louis Chapter is seeking potential speakers for the following upcoming event. Please don't hesitate to reach out to Xiaomin (Sophie) or Travis if you are interested in delivering a speech. Future talks include the St. Louis Section March Luncheon or hour-length seminars. Suggestions on speakers of topics from research or case histories are welcome!

SAVE THE DATE - Case Histories Seminar and Student Projects

Check out **lessons learned** and **panel discussions** with our local geotechnical legends and **student research posters** on display during the registration/networking period during the Case Histories Seminar. Selected students will also give brief presentations on their topics. A limited number of **sponsorship opportunities** are available for this event; if interested, contact Travis or Zachary!

When: Wed, April 24th | 5:00 - 9:00 pm

Where: IL Monastero Banquet Center, Saint Louis University, 3050 Olive St., St. Louis, MO 63103

Attendees will receive PDH credits from this program.

SIUE Watershed Scholars

FULLY FUNDED MASTER'S DEGREE

SIUE WATERSHED SCHOLARS

Interested in earning a master's degree focused on watershed sciences? SIUE departments of Geography & GIS, Environmental Sciences, Biological Sciences, Chemistry, and Civil Engineering, in collaboration with the SIUE STEM Center, are pleased to offer the S-STEM Watershed Scholars program to students pursuing their master's degree in a STEM discipline with a research focus on sustainable watersheds.

BENEFITS

- Tuition Waiver (2 yrs + summer)
- Research Funds (~\$640)
- Conference Funds (\$1,500)
- Stipend (\$20,000 over two years)
- Workshops

ELIGIBILITY

- U.S. Citizen/resident/refugee
- Low Income Status
Earning less than \$25,515 at time of enrollment

HOW TO APPLY

- Apply to one of five degree programs at SIUE
- Submit a Watershed Scholar Application at link
<https://aemartinez05.wordpress.com/siuewatershedscholars/>

CONTACT:

Dr. Adriana E. Martinez
adrmart@siue.edu

Southern Illinois University Edwardsville is located in Edwardsville, Illinois just outside of St. Louis, MO

S-STEM Award #2130471 



2024 Mid-America Student Symposium - Sponsorships

An aerial photograph of a city at sunset, with buildings and trees in the foreground and a hazy horizon in the background. A white rectangular text box is centered in the upper half of the image.

ASCE | STUDENT
SYMPOSIUM

Mid-America
April 18–20, 2024

The American Society of Civil Engineers (ASCE) and the American Institute of Steel Construction's (AISC) student branches are again coming together to host a combined symposium with various competitions, speakers, networking opportunities, and social events.

The Missouri University of Science and Technology will be co-hosting the **ASCE Mid-America Student Symposium** with Missouri State University from **April 18th to 20th, 2024**. The symposium's main features are the Concrete Canoe and Steel Bridge competitions, social events, and a formal banquet. This symposium allows students from around the region to come together to show off their engineering skills while engaging in competition with one another. Missouri S&T will be taking the opportunity to host to show other future engineers and industry professionals our Student Design and Experiential Learning Center.

Sponsors and industry partners are the foundation for the engineers of the future. This symposium offers your company an occasion to showcase itself to a large and captive audience of students. To make this symposium successful, we would like to invite you to show your support and sponsor this event at one of the following tiers:

- **Green Tier: \$1,000**
- **Silver Tier: \$2,000**
- **Gold Tier: \$4,000**
- **Miner Tier: \$8,000**

These tiers will give you the benefits explained in the attached packet, along with additional sponsorship opportunities to support our conference. Support in any way is appreciated, truly.

For more information about sponsorship or ways to support the ASCE Mid-America Student Symposium, you can reach us at: gac8cx@mst.edu or kabng6@mst.edu.

Student Chapters of the Section



Brynnleigh Weaver, *President*
Magdy Abdelrahman, Ph.D., *Faculty Advisor*

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Morgan Voissem, *President*
Jalil Kianfar, Ph.D., *Faculty Advisor*

linktr.ee/SLU_ASCE



Brandon Lanning, *President*
Ajay Kalra, Ph.D., *Faculty Advisor*

[ASCE SIUC Facebook](#)



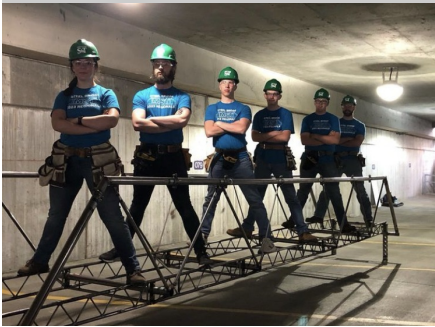
Magda Carbajal, *President*
Alaa Elsis, Ph.D., *Faculty Advisor*

[SIUE CampusLabs](#) | [ASCE SIUE Facebook](#)



Sotirios Korakis, *President*
Sarah Orton, Ph.D., *Faculty Advisor*

[Instagram: @MizzouASCE](#) | [ASCE Mizzou Facebook](#)



ASCE S&T Student Chapter



[ASCE S&T Student Chapter](#) officers and S&T CArEE Department kicked off the opening month of 2024 with many activities and have a busy semester ahead. We have continued to grow as a department, topping 840 students in Fall 2023 and graduating over 106 degrees in December.

The Chapter joined with our partners at Missouri State to have a great presence at the Multi-Region Leadership Conference (MRLC) in Kansas City. With a combined six (6) students attending the events and learning more of ASE activities and gaining in leadership training and opportunities.



We also hosted the 2024 Missouri State Championships for Future Cities in late January. Seeing future engineers getting excited about designing cities was great and the event was covered by NPR nationally. The St. Clair team will represent Missouri in Washington, D.C. in February!

For the Department, the spring employer networking night is planned for February 19th with the S&T Career Fair the following day. If interested in joining the networking event in Butler-Carlton Hall, please contact us! To register for the biggest engineering career fair in the Midwest, register with S&T COER. The New S&T Innovation Lab will also open in February and was highlighted in the American Society of Engineering Education (ASEE)! If you're further interested in inspiring the next generation of STEM majors, check out STEM-based Summer Camps at S&T!



ASCE S&T competition teams are gearing up to host the 2024 ASCE Mid-America Student Symposium in Rolla alongside ASCE Missouri State Student Chapter - S&T Cooperative Engineering Program. We're still taking sponsors to get corporate names out to students from 18 universities and over 400 future engineers!

ASCE SLU Student Chapter

The [ASCE SLU Student Chapter](#) is excited to begin



another semester! To start off the new semester, ASCE-SLU executive board members **Laura Gray**, **Zach Hill**, and **Morgan Voissem** traveled to Kansas City, MO, to attend the ASCE MRLC 2024 alongside ASCE-STL YMG members.

Thanks to STL YMG for supporting our student chapter by sharing a ride to and from the conference. Our members had a great time meeting ASCE professionals from Regions 3, 6, and 7, as well as meeting other ASCE student chapter leaders and learning from their experiences.

ASCE SLU also held their first general body meeting of the semester. It was great to welcome everyone back to campus after winter break, welcome new members, and discuss the upcoming semester plans.

Jobs Corner

[View all our job postings](#)

CIVIL (GEOTECHNICAL) ENGINEER

ENGINEERING GEOLOGIST

FEDERAL HIGHWAY ADMINISTRATION - LAKEWOOD, CO



U.S. Department
of Transportation

**Federal Highway
Administration**

GEOTECHNICAL ENGINEER INTERN

SCI ENGINEERING - ST. CHARLES, MO



SCI ENGINEERING, INC.

CIVIL ENGINEER/PROJECT ENGINEER

ENGENUITY - CHESTERFIELD, MO



ENGENUITY

BUILDING VALUE BY DESIGN

ADJUNCT FACULTY - ALL AREAS

MISSOURI S&T - WEST COUNTY OFFICE, ST. LOUIS, MO

STRUCTURAL ENGINEER (6-10 YEARS)

STRUCTURAL ENGINEER (ENTRY-LEVEL)

KPFF - ST. LOUIS, MO



ASCE St. Louis Section

c/o Engineers' Club of St. Louis

4359 Lindell Blvd., St. Louis, MO63108

Affix
Stamp
Here

Email Section news and events to BrenanP@theEngenuity.com. See the [Arch Newsletter Guidelines here](#).

Keep your contact information up to date by contacting ASCE (asce.org), 800-548-ASCE (2723)

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