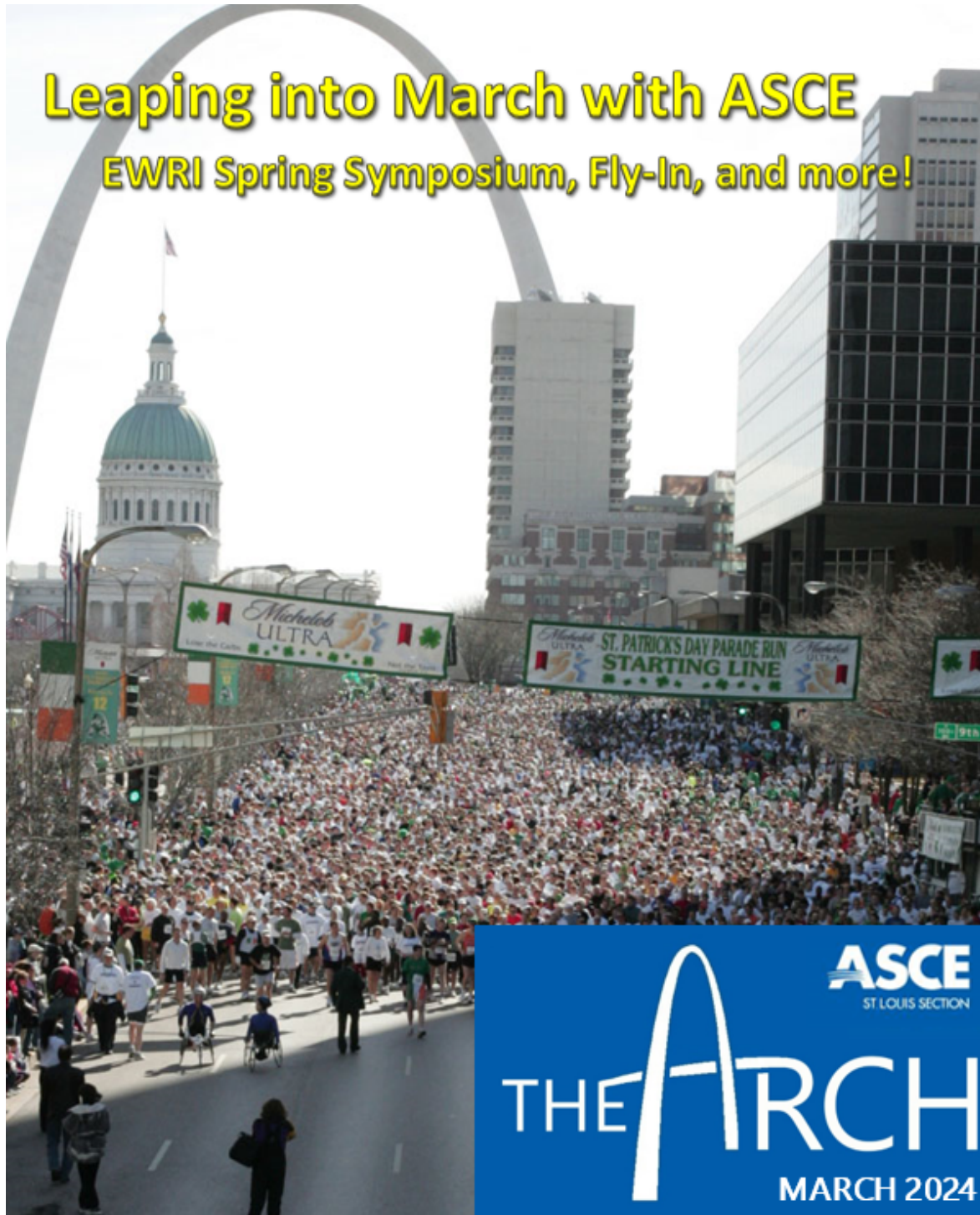


March 1, 2024

Leaping into March with ASCE

EWRI Spring Symposium, Fly-In, and more!



ASCE
ST LOUIS SECTION

THE ARCH

MARCH 2024



March 2024 Newsletter

The Arch Team

Newsletter Editor:

- [Brenan Pool \(Engenuity\)](#)

Programs Chair:

- [Stephen Noeth \(Volkert\)](#)

Nominating Committee Chair

- [Alison Graves \(Civil Design, Inc.\)](#)

The Arch March cover:

- [St. Patrick's Day Parade Run](#)

Upcoming Section Events

March

8 - EWRI STL Spring Symposium

12 - March Luncheon

13 - YMG Blues Hockey Game

14 - PI Day

17 - St. Pat's

19-22 - National Surveyors Week

27 - YMG Webinar: PE Licensure

31 - Easter

April

7 - World Health Day

10 - April Luncheon

18-20 Mid-America Student Symposium

Connect with [@ASCESTL](#)

2024 Section Board of Directors

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From the President

The month of March came one day later, as February had 29 days during this leap year. This extra day was welcome, because the **2024 Engineering Week** activities kept the ASCE St. Louis Section quite busy during February.

I hope you had a chance to attend the E-Week luncheon on February 19th that was [sponsored by the St. Louis Engineering Center](#) at the Clayton Plaza Hotel. St. Louis Lambert International Airport Director, Rhonda Hamm-Niebrugge gave an informative presentation on the airport's master plan and all of the exciting changes planned. The following day was led by History and Heritage Chair, Jeff Fouse, with the Section attending the Engineering Center's

Director of Professional & Technical Development

[Tony Roth](#)

Geotechnology, LLC

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Saint Louis University

Past President

[Alison Graves](#)

Civil Design, Inc.

Discovery Fair and introduced our profession to local high school students.

Finally, eleven (11) section volunteers closed out E-Week by staffing an ASCE display at the [Saint Louis Science Center's SciFest: Engineering Expo](#). We introduced the young and the young at heart to Civil Engineering by having them build a cable stayed bridge, play in the sand with our MSE wall demonstration, and build structural sound bridge structures on a computer program.

We also debuted the Section's newly acquired virtual reality goggles where users could step into the future and explore ASCE's Mega City and Floating City. [If you are not familiar ASCE's Future World Visions initiative, check them out these experiences here!](#)

Speaking of Future World Vision, February saw the release of a new giant screen film by MacGillivray Freeman Films in partnership with ASCE, *Cities of the Future*. [Check out the film's trailer](#) and [film's website](#)! While there currently no public showings scheduled for the St. Louis Area, the ASCE St. Louis Section is planning a private film screening at the Saint Louis Science Center IMAX theater at the end of April, 2024. Info on this event will be coming out in early April; be on the lookout!

[ASCE Mid-America Student Symposium](#) at Missouri S&T on April 18 – 20 is fast approaching! I understand the organizers are still looking for professional volunteers to help; especially if you are an ASCE Region, Section, Branch, or Young Member leader. If you are interested in helping out, [please reach out to a Section or S&T leader to get involved](#)! I hope you all have a great March and enjoy the Springtime and warmer weather it will bring!

Christopher Toenjes

2024 St. Louis Section President

March 2024 Luncheon

Tues, March 12

[ASCE St. Louis Section](#) to proud to partner with [G-I St. Louis Chapter](#) to host **Mr. G. Richard Bird** at our upcoming March luncheon! He will present on **Controlling Groundwater for Open Excavations and Other Subsurface Construction**.

Controlling groundwater is crucial for top-notch construction, often requiring innovative approaches for a dry worksite. From basic sump pumping to sophisticated pumped well systems, contractors employ various methods tailored to project needs. For complex

projects, 24/7 supervision, redundant equipment, and smart power backups ensure uninterrupted dewatering. In flood-prone areas, temporary cofferdams and emergency flood protocols safeguard progress. Sometimes, creative solutions like blocking seepage paths can minimize dewatering needs, showcasing the ingenuity of modern construction practices.



G. Richard Bird

Richard brings over 60 years of geotechnical engineering expertise, specializing in analyzing and solving groundwater control challenges. He holds a BS in Civil Engineering from the University of Illinois and an MS in Soil Mechanics from Harvard University. Currently a part-time principal geotechnical engineer with AECOM in St. Louis, Richard's career spans major projects across the US and internationally. His work includes designing and implementing seepage control measures for diverse infrastructure such as dams, power plants, tunnels, and sewage systems.

Recognized nationally as an expert in construction dewatering, Richard has authored numerous papers for leading engineering organizations and provided expert testimony in legal proceedings.

Register for this event!

Register by TOMORROW!

Contact Programs to register late

[Stephen Noeth](#), Programs Chair

[Maggie Cox](#), Programs Assistant

When: Registration starts at 11:30, lunch is served at 11:45, and the program will begin at 12:00. One (1) PDH is available from this program.

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

Engineers Week 2024

ASCE STL is proud of our members' extraordinary commitment to our profession and stellar accomplishments at home and beyond! Again, Happy 2024 Engineers Week!

See all the fun **ASCE St. Louis Section** members had during E-Week with some attending Engineering Center of St. Louis' February Luncheon, others interacting with ASCE's Future World Vision through VR goggles at the Engineers Club of St. Louis' Discovery Fair, and others joining us at Saint Louis Science Center's (SLSC) SciFest: Engineering Expo!



(Left): ASCE's Future World Vision goggles on display at the Engineers Club Discovery Fair. (Right): Section members during E-Week February Luncheon.



(Above): Images from ASCE STL's table and displays at SLSC's SciFest: Engineering Expo.

Call for Board Nominations



The Section is accepting nominations for Board positions for the 2024-2025 term. In particular, we're seeking nominations for **Director of Professional and Technical Development** for a two-year term beginning October 1st. This position will be vacated at the beginning of ASCE's Fiscal Year on October 1, as the individuals currently holding Board or Director positions will be Official Nominees for new positions or rotate off the Board. A description of this position is available on the [ASCE St. Louis](#)

[Section website in our Constitution and Bylaws and Handbook](#). Acceptance of the position for a Director typically leads to subsequent positions on the Board of Directors, resulting in a multi-year commitment to serve the Section.

Please submit nominations in writing via email to Past-President and [Nominating Committee Chair Alison Graves](#). Nominations shall include the name of the individual and a brief description of their qualifications and interest in the position. **Nominations must be received by March 31st.**

Call for Section Volunteers



The Section is looking for more volunteers to become involved and lead our amazing committees. Build leadership skills, give back to your Section, meet new friends... it's wins all around! We're here to serve ASCE STL, but come serve alongside us.

Reach out to [any Board of Director or Section volunteer](#) to get involved!

- Government Advocacy
- Membership Champion
- Pre-College (K-12) Outreach
- Student Involvement Outreach
- Sustainability
- Specialty Institutes & Groups
- Annual Dinner & Awards
- Communications & Website
- Diversity & Inclusion
- Fundraising
- History & Heritage
- Life Members
- Programs
- Scholarships

Happy St. Pat's from ASCE STL!



Younger Members Group (YMG)

Join younger members in their quest to bridge the gap between student members and young professionals at various happy hours and events!

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](#)

Upcoming YMG Events

- Road to PE: Licensure Explained
 - Wed, March 27 @ 18:00
- April Happy Hour - Westport Social
 - Thu, April 11 @ 17:30

Younger Members Chair

Alicia Padilla

Special Inspections & Design



Institutes & Technical Groups

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



ENVIRONMENTAL & WATER RESOURCES INSTITUTE

St. Louis Chapter

Spring Symposium is here!

Join us for our 2024 Spring Symposium and Monthly Speaker series!



ENVIRONMENTAL & WATER RESOURCES INSTITUTE

St. Louis Chapter



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:	Cost:	Registration will include:
Pere Marquette Gallery at DuBourg Hall Saint Louis University 221 N Grand Blvd, St. Louis, MO 63103	Students \$10 ASCE Members \$90 Non-Members \$120	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:

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

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

Monthly Speaker Series Event

The St. Louis Section of EWRI is pleased to announce our monthly webinar on **Thursday, March 21 from 12:00-13:00 (CT)**. This presentation will be broadcast live over a webinar. Registration is free to ASCE members.

Total Maximum Daily Load Implementation Modeling, Planning, and Design: A Synthesis of Resources for Watershed Stakeholders

The webinar presents a review of advances in Total Maximum Daily Load (TMDL) implementation planning by modeling best management practices (BMPs) and green infrastructure (GI) practices along with enhanced (hybrid/streamlining) approaches. The study highlight the latest models and modeling tools, specifically the United States EPA's GI Modeling Toolkit and the Landscape and Green Infrastructure Design (L-GrID) model to support stakeholder engagement in flexibly formulating and testing GI strategies to inform decision-making.



Deva K. Borah, Ph.D., P.E., F. ASCE

Dr. Borah is currently a Senior Engineer in Stormwater Engineering with the Public Works Department – Engineering Division, City of Chesapeake, Virginia. During his over 40-year career, Deva worked for universities, government agencies, and consulting companies in Civil and Agricultural Engineering fields. Deva is specialized in hydrologic, hydraulic, and water quality modeling, developed several model codes, and publishes his work in scientific journals.

Harry X. Zhang, Ph.D., P.E., M. ASCE

Dr. Zhang is the Research Program Manager on Integrated Water and Stormwater at The Water Research Foundation (WRF). He leads the Sustainable Integrated Water Management (SIWM) and stormwater research portfolios, and climate change research topics.



Moira Zellner, Ph.D.

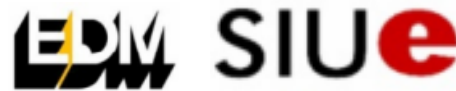
Dr. Zellner’s academic background lies at the intersection of Urban and Regional Planning, Environmental Science, and Complexity. She has served as Principal Investigator and Co-Investigator in interdisciplinary projects examining how specific policy, technological and behavioral factors influence the emergence and impacts of a range of complex socio-ecological systems problems. Dr. Moira is a Program Director, Master of Science in Urban Informatics Northeastern University.

Register here today!

EWRI St. Louis Speaker Series
March 21th @ 12:00
Register by March 19!

Contact **Rohan Benjankar** with questions, topic ideas, or have interest in presenting.

Thank you to our sponsors, EDM and SIUE!



Upcoming EWRI STL Events

- Water, Water, Everywhere!
 - **Fri, March 8 @ 08:00**
- Monthly Speaker Series
 - **Thu, March 21 @ 12:00**

EWRI STL Chair

Jiaman Xu

Civil Design, Inc.



Geo-Institute (G-I) St. Louis Chapter



**GEO-
INSTITUTE**
St. Louis Chapter

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. Suggestions on speakers of topics from research or case histories are welcome!

Upcoming GI STL Events

- Monthly GI Meeting
 - **Tue, March 12 @ 10:10**
- March Section Luncheon
 - **Tue, March 12 @ 11:30-13:00**

G-I STL Chair

Xiaomin (Sophie) You
WSP USA



- Geo-Legends Panel Discussion & Student Projects Showcase
 - [Wed, April 24 @ 17:00-21:00](#)



ST. LOUIS
WORK ZONE AWARENESS RUN **2024**

*Timed 5K, 1-Mile Fun Run,
or Virtual Participant*



SAT., APRIL 20 @ 8 A.M.

**MoDOT Transportation
Management Center**
14301 S Outer Forty Road
Chesterfield, MO 63017

Register to run [here.](#)

runsignup.com/Race/MO/Chesterfield/WorkzoneAwareness5K

#STLWZARUN





I STRUCTURAL
ENGINEERING
CONFERENCE

About the Conference

The conference is designed for professionals in structural engineering to gather in Champaign-Urbana to discuss exciting new developments in the field, gain timely job-related information, network with colleagues, and renew their sense of professional purpose. The participants are a diverse group of engineers from local, state, and federal agencies; consulting and contracting firms; and universities.

Conference Planning Committee

The Conference program was developed by a distinguished group of practicing structural engineers from the Chicago, Central Illinois, and St. Louis regions, in cooperation with the structural engineering faculty of the University of Illinois at Urbana-Champaign.

Professional Development Hours

The conference will provide 7.0 professional development hours (PDH) for professional engineers.

Register Today!

<https://my.cee.illinois.edu/isec-2024>

Thursday, April 4, 2024

I Hotel and Conference Center

1900 S. First Street, Champaign, IL 61820

<https://structures.cee.illinois.edu/structural-engineering-conference/>

I ILLINOIS

2024 Mid-America Student Symposium - Sponsorships

Last month to donate to support our students!



College of Engineering
Department of Civil, Architectural
and Environmental Engineering
Rolla, MO 65409-0030
(573) 341-4461

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.

NOTICE: Due to increasingly amazing content, we're moving student chapter news to the new & improved Mid-Month Arch!

CE, EE, ME TEACHING OPPORTUNITIES

UMSL/WashU JOINT ENGINEERING - ST. LOUIS, MO



CIVIL ENGINEER POSTINGS

ROESLEIN & ASSOCIATES - ST. LOUIS, MO



CIVIL (GEOTECHNICAL) ENGINEER

FEDERAL HIGHWAY ADMINISTRATION - LAKEWOOD, CO



U.S. Department
of Transportation
**Federal Highway
Administration**

ASCE St. Louis Section

Engineering Center of St. Louis
St. Louis, MO
asceSTL.org

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