

September 2017

ASCE St. Louis Section 2017

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ASCE St. Louis Section 2017 Annual Awards Dinner



R.S.V.P.

ASCE ST. LOUIS SECTION
2017 ANNUAL AWARDS DINNER

Program to include:
Presentation of St. Louis Section Awards
Introduction of New Officers

THE EVENING OF FRIDAY,
SEPTEMBER 22, 2017

Tickets \$40/person

Jefferson Ballroom
At Moulin Event Meetings
2017 Chouteau Ave. St. Louis, MO 63103
Doors open at 6 P.M. – Food Service at 6:30 P.M.

HOPE TO SEE YOU THERE!

R.S.V.P. by 9/15/17. Contact: Britt Marron, Annual Dinner Chair
Registration Link: <https://goo.gl/47a4GL>
314.206.4266

Officers & Directors 2016 - 2017

President

Matt Harper
219 Mockingbird Lane
Waterloo, IL 62298
618-939-0154
E-mail: mharper@wrs-rc.com

President-Elect

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Director of Administration

John Weiland

Director of Professional Development

Alison Graves

Director of Technical Development

Chris Toenjes

Past President

Michael Buechter



President's Message

School has started, days are getting a little shorter, and college football games have begun. Those are all signs of summer coming to an end and fall being just around the corner, and it's time for the Section to get back to work after our summer vacation. It also means it is that time of year for the Section's Annual Awards

Dinner. This year's dinner will be held on September 22nd at the Jefferson Ballroom. The official flyer/invitation is at the beginning of this newsletter. It is an opportunity to celebrate our Section, present awards including the Project of the Year and Professional Recognition. We also award scholarships to the five universities within our Section, which include Southern Illinois University-Carbondale, Southern Illinois University-Edwardsville, St. Louis University, Missouri University of Science and Technology, and Missouri University-Columbia. I encourage all our members to attend the annual awards dinner. Hope to see you there!

As the President of the St. Louis Section, I also serve as the Region 7 Assembly Delegate for the St. Louis Section. Early in August, as our delegate, I attended the Region 7 Annual Meeting in Lawrence, Kansas. The meeting provided the opportunity for each delegate to give a presentation about their section, highlighting any successful activities and/or events their section had over the past year. As I was putting together my presentation, I found myself having trouble keeping it within the allotted time and at the same time feeling very proud to be the President of such a successful organization. One of the events I talked about was the very successful Dream Big movie event. The event allowed 200 ASCE members and student groups the opportunity to attend Dream Big Movie Premier at the St. Louis Science Center. We had 10 sponsorships with each covering the ticket costs for 10 students to attend the event. I also talked about our successful Younger Members Group and their activities including Operation Food Search, Rebuild Together, and Sci-Fest at the Science Center. I also talked about many other activities/events our committees and institutes participated in, and I definitely went over my allotted time. The Region 7 Awards were also presented at the Annual Meeting. The St. Louis Section was again awarded the ASCE Section and Branch Diversity Award for the fourth year in a row. Also our very own Alison Graves (Director of Professional Development) was awarded the 2017 Outstanding ASCE Younger Member Award.

As I close my last President's Message, I would like to thank all of the Board members, the committee and institute chairs, and all members who contribute to making the Section so successful. I would like to wish our incoming President, Lyle Simonton, much success in the upcoming year.

Sincerely,

Matt Harper, P.E.

Nominating Committee

The Nominating Committee is pleased to announce that it has nominated, and the Section Board of Direction has approved, Ms. Melantha Norton, PE, as the new St. Louis Section ASCE Chapter Director beginning in October 2017. When you see Melantha please congratulate her on her upcoming role. If you have any questions or comments regarding the nominating and election process, or would like to become more involved, please contact Michael T. Buechter, PE, at mtbuec@stlmsd.com or call 314-768-2772.

Attention ASCE Members:

The Section's email list will be rebuilt soon! We receive monthly updates from ASCE to help keep our Email list up-to date. Please be sure to set the Primary email address in your ASCE profile to be the email address where you prefer to receive all ASCE related messages.

ASCE Younger Members Group

Meet a Professional Luncheon

Check it out! We're helping students connect with professionals and younger members in their field of civil engineering to discuss topics like project work, companies, the transition from college to full-time, and any other questions they may have. Interested in helping plan? Send an e-mail to Melissa.Marks@ch2m.com. Interested in being a mentor? Sign up below or send me an e-mail.

Interested in being a Professional Mentor? [Sign up here!](#)

Interested in being a Younger Member Mentor? [Sign up here!](#)

Know a student that may be interested? [Spread the word!](#)

See you at our First Meeting!

As summer comes to a close, our meetings are starting back up! Join us for our first meeting at Urban Chestnut in the Grove! Plan on attending? E-mail Melissa.Marks@ch2m.com

October YMG Meeting:

Thursday, October 12, 2017

Urban Chestnut

4465 Manchester Ave. 63110

6 pm to 8 pm

<http://urbanchestnut.com/home/>

Stay connected with us on Facebook at <https://www.facebook.com/ASCEStLYMG/>

Meet a Professional



Luncheon

- When?** Thursday, September 14th
11:30 am - 1:00 pm
- What?** Join us for lunch and be paired with a professional in your field of civil engineering to discuss their work, company, and any other questions you may have about the next step in your career!
- Where?** Il Monastero at Saint Louis University
3050 Olive St, St. Louis, MO 63103
- How?** RSVP by September 7th to:
Melissa.Marks@CH2M.com
Include your name and area of interest (i.e. Structural, Geotech, Environmental, Construction, etc.)

**Lunch sponsored by the
ASCE St. Louis YMG**



EWRI St. Louis Monthly Speaker Series Event

The St. Louis Section of EWRI is pleased to announce our monthly webinar, **jointly sponsored by Missouri University of Science and Technology, on Thursday, September 21, 2017 at 11:30 am-12:30 pm.**

This presentation will be broadcast live over a webinar. Registration is free for in-person (at USGS in Rolla) or webinar attendance. **Advance registration is required by Monday, September 18, 2017** Please register online in advance at the following link:

<https://drive.google.com/open?id=17B7iZESys-WgQRe4nwVTWaK6yquBEMs7YqXoPA7Zzd0>

Registrants will receive detailed login & dial-in information or directions for in-person attendance prior to the event.

The Influence of Herbert Vogel on WES-Vicksburg and the Mississippi River & Tributaries Project

Herbert D. Vogel (1900-84) graduated from West Point in 1924, and received a commission in the Corps of Engineers. In 1928-29 he attended the Berliner Technical Hochschule in Charlottenburg, Germany, which allowed him to evaluate all of the hydraulic laboratories in Europe. Being the first Army engineer to earn a doctor of engineering, he was tabbed to set up a hydraulics laboratory for the Corps new Mississippi River & Tributaries flood control project. In October 1929 a 147-acre laboratory was established in Vicksburg under the command of Lieutenant Vogel and christened the "Waterways Experiment Station" (WES). The Mississippi River Commission funneled close to \$1 million per year to Vogel, which allowed him to construct a state-of-the-art research facility, purchasing holding tanks, flumes, weirs, and traps inside the main buildings, and an earth dam impounding a 40 acre lake to become the world's largest hydraulics laboratory by 1934.

Learning Objectives

This presentation will focus on the following learning objectives: 1. The practical importance of hydraulic laboratories to forecast riverine behavior; 2. How a Corps of Engineers lieutenant succeed in establishing the world's largest hydraulic laboratory; 3. How Vogel brought in other experts to aid his efforts; and 4. How the results of the research at WES impacted the management of the Mississippi River watershed's riverine navigation, which allows 75% of the agricultural and mining products from the nation's heartland to be transported to their respective markets.

Speaker: J. David Rogers, PhD, PE, PG, F.ASCE is Professor and Karl F. Hasselmann Chair in Geological Engineering at the Missouri University of Science & Technology. Prior to accepting his current position he founded Rogers/Pacific and Rogers-Caulfield, geoengineering and construction management firms, with offices in San Francisco, Los Angeles, and Honolulu. His degrees are from Cal Poly Pomona (1976) and Cal Berkeley (1979 and 1982). Rogers is a member of the History & Heritage Committee of the American Society of Civil Engineers.

Thank you to our joint seminar sponsor, **Missouri University of Science and Technology!**

Please contact Robert Holmes (bholmes@usgs.gov) with any questions, if you are interested in presenting, or have an idea for a topic.

Dear EWRI St. Louis Chapter Members,

You are invited to attend our Chapter's 2017 Fall General Meeting.

Tuesday, September 26, 2017, 10:30-11:30am

Location: Einstein Bros. Bagels, 8127 Big Bend Blvd, Webster Groves, MO 63119

www.einsteinbros.com (314) 963-2080

Please RSVP by September 19, jzhou@siue.edu

Agenda Items (preliminary)

EWRI St. Louis Chapter Leadership Update

Annual Financial and Budget Review

Student Involvement

Webinar Series

Continuing Education Seminar and MWIP

Chapter Website Page Update

EWRI Oct. 2017 National Leadership & Council Weekend Attendance

Please feel free to suggest additional agenda items by September 19

If you are unable to attend, please advise your questions, comments, suggestions, or inform if you would like to volunteer to Robert Holmes (bholmes@usgs.gov) and Elise Ibendahl (elise.ibendahl@ch2m.com).

Notice of St. Louis Section EWRI Election of Secretary/Treasurer

Per the By Laws of the St. Louis Section EWRI, the nomination committee presents Sue McCrary as the official nominee for the position of Secretary/Treasurer of the St. Louis Section EWRI. Membership has until close of business September 25 to submit write-in candidates for this position to Jim Zhou (jzhou@siue.edu). The annual meeting of the EWRI St. Louis Section will be held at 10:30 AM on September 26 at which time an official voice vote will be taken of the candidates presented (both official nominee and any write-in candidates). EWRI members who cannot be present at the annual meeting, but wish to vote can arrange for a proxy vote by emailing Jim Zhou (jzhou@siue.edu).



**GEO-
INSTITUTE**



**STRUCTURAL
ENGINEERING
INSTITUTE**

St. Louis Chapter

REGISTER TODAY!

Geo-Structures Confluence

**Thursday, November 2, 2017
St. Charles Convention Center
St. Charles, Missouri**

Registration is now open for the second annual Geo-Structures Confluence (this conference combines GeoConfluence and SEI Day). The St. Louis Chapters of the Geo-Institute (GI) and Structural Engineers Institute (SEI) are sponsoring this event. This one-day conference is open to all, and will be held from 8 a.m. to 5 p.m.; registration opens at 7:15 a.m., with a continental breakfast provided. Registration also includes a buffet luncheon. Attendees will earn 7 PDHs.

Tentative Agenda

There will be a combined AM session with structural and geotechnical break out sessions in the PM!

***Construction Litigation Case Histories**

– Stan Caldwell

***Effect of Spatial Variability on Static and Liquefaction-induced Differential Settlements** – *Dr. Armin Stuedlein*

***Wet Soil Mixing for Seismic Stability Improvement – Dynegy East Ash Pond** – *Jason Friedrich and Alec Lenzini*

***Construction Dewatering** – *Richard Bird, et. al.*

***Maline Creek Tunnel Construction** – *John Deeken and Dave Friedrich*

***Limitations of Suction-controlled Triaxial Tests in the Characterization of Unsat. Soil Behavior** – *Dr. Xiong Zhang*

***State of practice/State of Art Liquefaction Analysis** – *Dr. Scott Olson.*

***Innovative Design for the Merchants Bridge West Approach Reconstruction** – *Lyndsie Janbakhsh and Kevin Kriete*

***Electrical Transmission Structures and Drilled Pier Foundations** – *Alex Kladiwa and Nathan Textor*

***Missouri School Seismic Safety Initiative** – *Nathan Gould and Michael Griffin*

***How Advances in Ground Improvement Impact Structural Design** – *Mark Rohrbach*



**GEO-
INSTITUTE**
St. Louis Chapter



**STRUCTURAL
ENGINEERING
INSTITUTE**
St. Louis Chapter

Geo-Structures Confluence 2017 Registration

Geotechnical and Structural Engineering Conference

Thursday, November 2, 2017

St. Charles Convention Center, St. Charles, MO

- Please register at <https://goo.gl/dUfkX7> (case sensitive). Payment can be made with credit card or check.

Registration Class	Early Rate before Thursday, October 12	Regular Rate October 13 to 26 and walk-ins
Professional	\$175	\$225
Full-time Students	\$60	\$100
Exhibitor (includes 1 registration)	\$400	\$400
Break Sponsorship (not a registered attendee)	\$250	\$250
Meal Sponsorship (not a registered attendee)	\$500	\$500

- If paying by check: please **register at the site above**, make check payable to "**ASCE St. Louis Section**," and mail to
Geo-Structures Confluence 2017 Registration
c/o Stephanie Spann
David Mason and Associates
800 South Vandeventer Ave.
St. Louis, MO 63110

Postmark checks by October 12 to register at the discounted rate, and October 26 for all other registrations.

- Exhibitors and Sponsors may wish to contact Lyle Simonton (314-421-2460 x101, lsimonton@subsurfaceconstructors.com) for benefits of their registration.
- Vegetarian and other meal options are available. Please contact Stephanie Spann (sspann@davidmason.com) with your request.
- Registration after October 26 may be made in person as a walk-in, but may receive fewer benefits as their attendance cannot be planned.

***Refunds must be requested before Thursday, October 19, 2017.
Any refund will be subject to a 15 percent cancellation fee.***

***Registration may be transferred to another person by advanced email notice to
Stephanie Spann (sspann@davidmason.com) and Greg Hempfen (hempfen69@sbcglobal.com).***

Employment

CIVIL ENGINEER (Development Review)

The Metropolitan St. Louis Sewer District (MSD) is a Missouri State special purpose political subdivision that is responsible for the St. Louis area's storm water and sewer collection and treatment. MSD ranks in the nation's top wastewater utilities, and anticipates spending approximately \$4.7 billion on capital investment and asset sustainability over a multi-decade period.

MSD has a challenging opportunity for an engineer to review complex design plans for storm water drainage, sanitary sewer lines, lift stations and small wastewater treatment plants.

Qualified candidates must have Bachelor's Degree in Engineering, preferably Civil, with a PE License. Four years of engineering experience required including at least two years' experience in stormwater and sanitary sewer design, review, and/or construction.

We offer our employees a challenging career along with an excellent salary/benefits package, convenient location, and free parking. Go to www.stlmsd.com/careers for more information and to apply.

Metropolitan St. Louis Sewer District

Human Resources
2350 Market St.
St. Louis, MO. 63103

EEO M/F/V/H

CIVIL ENGINEER
Design – Capital Projects

The Metropolitan St. Louis Sewer District (MSD) is a Missouri State special purpose political subdivision that is responsible for the St. Louis area's storm water and sewer collection and treatment. MSD ranks in the nation's top wastewater utilities, and is making a significant investment in capital infrastructure and asset sustainability over a multi-decade period.

The District is seeking an individual to fill a position within the Engineering Department - Design Division. This Project Manager position in the Capital Projects group will be responsible for coordinating the work of outside consulting firms. Duties will include, but not necessarily be limited to oversight of the design of storm, sanitary/combined sewers, and green infrastructure improvements; review plans, specifications and cost estimates; address concerns of impacted property owners; participation in meetings with public officials and the public at large to answer questions about the construction project; and other matters associated with the successful completion of the District's capital construction program.

Must be a graduate from a recognized college or university with major course work in civil engineering; and four years of progressively responsible related engineering experience, including at least two years of experience in sewer plan design and review and/or construction. Must be a licensed professional engineer in the Missouri or have the ability to become licensed within six (6) months of the date of hire.

Excellent compensation/benefits program. For more information and to apply go to www.stlmsd.com/careers under Civil Engineer.

Metropolitan St. Louis Sewer District

Human Resources
2350 Market St.
St. Louis, MO. 63103

EEO M/F/V/H

CIVIL ENGINEER
Design – Capital Projects

The Metropolitan St. Louis Sewer District (MSD) is a Missouri State special purpose political subdivision that is responsible for the St. Louis area's storm water and sewer collection and treatment. MSD ranks in the nation's top wastewater utilities, and is making a significant investment in capital infrastructure and asset sustainability over a multi-decade period.

The District is seeking an individual to fill a position within the Engineering Department - Design Division. This Civil Engineer position in the Design Group will be responsible for the design/review of plans involving complex sanitary and storm water drainage problems; design of storm and sanitary sewer lines and lift stations and small wastewater treatment plants; evaluation and preparation of technical reports concerning complex construction and engineering problems and solutions. This position may also act as a liaison on major engineering projects and serve as project manager on major repair work; meet with government officials, consultants, contractors and the general public regarding necessary design changes.

Must be a graduate from a recognized college or university with major course work in civil engineering; and four years of progressively responsible related engineering experience, including at least two years of experience in sewer plan design and review and/or construction. Must be a licensed professional engineer in the Missouri or have the ability to become licensed within six (6) months of the date of hire.

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Metropolitan St. Louis Sewer District

Human Resources
2350 Market St.
St. Louis, MO. 63103

EEO M/F/V/H



CITY OF DECATUR

JOB ANNOUNCEMENT
DIRECTOR OF PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS

MESSAGE FROM THE CITY MANAGER:

Hello,

Thank you for taking the time to view our position recruitment. Now it's up to me to draw you into what I believe is a great opportunity for that "up and coming" candidate or the seasoned professional that has plenty of fuel left in the tank. So, here I go...

A recent re-organization has flattened the organization, provided an ongoing \$300,000 + savings in personnel costs, created new departments and expanded the responsibilities of department heads to include the Public Works Director. The City's Water Production Department is now a direct report to the Public Works Director.

You will be replacing a seasoned Public Works Director after a 40 + year career in the field and nearly 10 years with the City of Decatur. While I expect your perspective on the department and encourage new ideas to save taxpayer dollars and improve efficiencies. he is handing the keys of a solid department over to the new Public Works Director.

As you will read in greater detail in this recruitment brochure this community is solidly in its "Infrastructure" chapter of Decatur's history. Not necessarily glamorous, but it is exciting to be a part of this. Revenue streams are in place to complete the millions of dollars' worth of projects (streets, water, fiber and sewer) that are underway to catchup with postponed improvements and clearly positioning ourselves for business expansion/growth and new opportunities. There truly is a buzz in this community and its contagious!

I need my next Public Works Director to be high energy, well-spoken and able to articulate public works language in a way it is understood by my elected, staff and most importantly the community. To mention a couple of other areas with high importance to me is a person that pursues "green" opportunities and is tech savvy. In return I will equip you (your department) with the training/tools necessary to complete your job, hold

you accountable and most importantly you will have my support.

I'm hoping this opportunity in Decatur gets you as excited as I am. You will be working with a team that has a "can do" attitude. Thank you for your interest...

Please take a look at our 2016 team accomplishments.

<http://www.decaturl.gov/wp-content/uploads/2017/06/2016-Community-Projects-Update-.pdf>

Respectfully,



Tim Gleason
City Manager

ABOUT DECATUR:

The City of Decatur (Population 73,500) is the largest city and the county seat of Macon County in the State of Illinois. Decatur was founded in 1829 and is located 40 minutes away from the State Capital of Springfield and less than 3 hours away from St. Louis, Indianapolis and Chicago.

With a staff of almost 500 full-time employees and an annual operating budget of \$172 M, Decatur seeks to improve the quality of life for its residents by becoming the premier public service organization in Central Illinois. We believe the fulfillment of our mission will result in pride – pride for and by our community, as well as pride for city employees.



Photo: Downtown Decatur



Photo: Transfer House

ABOUT THE DEPARTMENT:

The Public Works Department includes the divisions of Engineering, Municipal Services, Water Production and Water Services; which include the Streets and Sewers, Urban Forestry, Fleet Maintenance, Municipal Parking System, Traffic Control, Water Production and Maintenance, Water Distribution and Water Metering Sections.

The department staffs approximately 120 full and part time employees, including professional engineers, managers, technicians, skilled and semiskilled workers, and laborers in a union environment. The department has an operating budget of \$101 M and oversight of the 5-year Capital Improvement Program.

ABOUT THE POSITION:

Under the direction of the City Manager, this position Directs and manages infrastructure development and maintenance for the City of Decatur, including the City's streets, sewers and water distribution system. Directs the planning, design, construction, operation and maintenance of structural elements within local public rights-of-way under City control. Also directs and monitors the planning, operation, and maintenance of water impoundment and production facilities, City buildings, the municipal parking system, and the City's vehicles.

MAJOR DUTIES:

The selected candidate prepares and administers the Capital Improvements Program and related projects for the City. Supervises, coordinates, controls and evaluates operations of all division of the Public Works Department, including all personnel functions. Prepares, reviews and approves periodic oral and written reports for the City Manager and City Council. Prepares and reviews departmental objectives and

operating budgets, including those for the Water Operating and Capital Funds; ensures expenditures and operations are in compliance with budget; approves payment estimates to contractors; and approves all purchase orders for the department. Develops and approves requests for professional services, evaluates and recommends consultant proposals; negotiates contracts and supervises engineering consultants under contract with the City. Reviews plans and proposals from private developers; approves compliance with City ordinances, standards and guidelines. Responds to citizen's complaints regarding the Public Works Department, including investigating and implementing solutions to problems; makes presentations to various groups; and responds to media request for information. Meets with Federal and State officials and representatives of other units of local government, as required. Meets with union representatives and classified employees on interpretation of contract and grievances, etc. Attends meetings as a member of various state and national committees and participates in various civic organizations. Performs other related work as required by the City Manager, City Council or the nature of the position.

THE IDEAL CANDIDATE:

The ideal candidate will have five or more years of responsible supervisor level experience in municipal engineering, infrastructure and water production management, including administrative experience. A Bachelor's degree is required in Civil Engineering or a related field, a Master's degree is preferred. A Professional Engineer's license in the State of Illinois is required. The candidate must be an effective communicator, a highly skilled manager and have extensive experience in managing municipal Capital Improvement Programs.

SALARY AND BENEFITS:

The anticipated salary will be in the low \$120's +/- DOE. The City is pleased to offer a comprehensive benefits package that includes health, dental, life, 457-deferred compensation plan and pension through Illinois Municipal Retirement Fund.

APPLICATION INSTRUCTIONS:

To apply, please submit a cover letter, detailed resume, five professional references and salary history via email to the Human Resources Director French Wilson at fwilson@decaturil.gov. The application deadline is 5:00 p.m. Friday, September 22, 2017.

LIVE

The City of Decatur, a jewel of a community nestled alongside 22 miles of scenic Lake Decatur growing locally and quickly expanding its reputation and reach beyond its Central Illinois boundaries. Decatur is fast becoming a leader in American industry and technological breakthroughs, today growing the products that feed the world and leading the way nationally in the development of sustainable practices and other green initiatives necessary to the growth and protection of this country.

There's something special happening here these days; companies are investing in record numbers and there's a community-wide sense of pride, togetherness and an undeniable spirit for getting things done. We're seeing new stores, restaurants and businesses opening in our city and people across the country are taking note. Decatur recently ranked as a top 12 Best Illinois Cities for Families, a Top 50 Best City for Global Trade, one of the Top 50 Safest Cities in Illinois and a top city in the country for physicians to live. Today Decatur Park District plays host to more than 7,500 youth and adult athletes as part of a number of locally run programs including baseball, soccer, softball, tumbling, wrestling, basketball, Special Olympics and others. This is in addition to a number of golfers in leagues that compete on the city's three award winning golf courses including Red Tail Run, a recently opened signature course designed by legendary PGA Hall of Famer Raymond Floyd. Still, the new Lakeshore Landing lakefront redevelopment is a regional attraction unlike anything that will be seen in Central Illinois.

In short, you really can have it all here, whether you prefer the great outdoors or one of our award-winning parks, live entertainment in the new Downtown Decatur or taking advantage of the stellar educational opportunities at our local schools, colleges and universities.

Check out what we have going on in Decatur.

<http://www.limitlessdecatur.com/>

<https://www.thrivedecatur.com/>

<http://www.decaturmagazine.com/>



Photo: Millikin University

WORK



Photo: Archer Daniels Midland Co. - Downtown

Decatur is proud to call America's heartland home but our reach is undeniably global, a leader in American manufacturing and a trailblazer in the quest for new energy sources critical to America's future. We are home to agribusiness giant Archer Daniels Midland Co., a leading producer of food ingredients that help feed the world and of the next wave of renewable fuels that power our daily lives. Branches of renewable food producer Tate & Lyle and mining manufacturer Caterpillar Inc. are also here in addition to award winning industry leaders in healthcare, technology, manufacturing, education and human services. Forbes Magazine ranked Decatur second in the country for having a thriving agriculture economy, where the average agribusiness worker earns three times the amount compared to the top ranked community. *Business Facilities* magazine ranked the Decatur area third for logistics hubs in the nation, a place where nearly \$1 billion in capital investment is planned or underway in the region.

On the healthcare front, both St. Mary's Hospital and Decatur Memorial Hospital continue to grow. Decatur Memorial remains in the midst of a \$39 million three-part expansion while St. Mary's recently completed the first phase of what is a \$31 million construction and expansion project both of which continue to position Decatur as a regional and national healthcare leader. This year also saw the opening of the Midwest Inland Port, a real game changer for the region that positions the City of Decatur as a transportation hub the likes of which has never been seen in the area. The intermodal container shipping and receiving facility offers direct access to three Class I railroads, four interstate highways and a major U.S. highway providing importers and exporters flexible access to coastal and export markets. The location provides proximity to 95 million

customers within a day's drive. It represents the only inland port in the nation with access to 3 major rail providers on one privately owned ramp. All without the wait time of ports located in high traffic metros.

VISIT

The City of Decatur offers award-winning parks and recreational opportunities, restaurants and shopping in the newly redeveloped Downtown Decatur and beyond.

Downtown Decatur

Experience the new Downtown Decatur, which recently underwent a \$14 million public development imagined as the next step in efforts to bring a new look, feel and energy to the city's Central Business District. The three-phased plan added new sidewalks, landscaping, lighting, recreational opportunities and, perhaps more importantly, it has already spurred a return to prominence of the city's downtown in the form of new businesses and jobs, entertainment options and the creation of a "new" downtown that is now a destination for both local residents and visitors alike.

Lakeshore Landing Lakefront Development Project

The Decatur Park District and the City continue to work together to bring a new face and amenities to the Nelson Park lakefront. The development is adding new restaurants and recreational amenities, housing, a waterpark, hotel, boat docks and other exciting amenities.

Lake Decatur, Hunting, and Fishing

Decatur remains one of the few cities in the country with its own inland lake, the City's primary water source and a hotbed of year-round water recreation activities including swimming, water skiing/jet skiing and, of course, fishing. The Lakeshore Landing redevelopment project, now underway, promises to make the shores of Lake Decatur an activity center year round as new restaurants, shops, housing, and other lake-based activities will represent a draw for both locals and visitors from across the Central Illinois region. The City also has a very active hunting community both along the lake and throughout the area (deer, duck, turkey, etc.) with its heavily wooded landscape, varied temperatures and multi-faceted terrain.



Photo: Lake Decatur

Gain the Competitive Edge at SIUE

Whether you are a working professional or a full-time student, the Southern Illinois University Edwardsville School of Engineering graduate program will prepare you for **advancement opportunities**, placing you in a better position to boost your **salary potential** and attain **career goals** in a competitive job market.

- Pursue a graduate degree in civil engineering while gaining expertise in the field.
- Choose a concentration in **structural, environmental, transportation** or **geotechnical** engineering.
- Conduct field and lab-based research and learn from highly-qualified faculty who are experts in their respective fields.



New! Earn Your Master's Degree with a Geotechnical Engineering Specialization

SIUE's Civil Engineering Program is expanding offerings in the geotechnical area to better suit the needs of students and local professionals. All courses are offered in the evening.

Summer 2017

CE 435 Pavement Design
CE 592-001 Design of Levees and Floodwalls

Fall 2017

CE 457 Soil Mechanics in Engineering
CE 492-11 Soil Improvement Methods
CE 592-02 Advanced Soil Mechanics

Spring 2018

CE 492-12 Environmental Geotechnics
CE 548 Finite Elements
CE 592-11 Geotechnical Earthquake Engineering

If you are interested in the Civil Engineering graduate program, contact Dr. Ryan Fries at rfries@siue.edu. For information on the geotechnical specialization, contact Dr. Reza Osouli at aosouli@siue.edu.

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

SCHOOL OF ENGINEERING

siue.edu/grad/civil-engineering



Southern Illinois University Chapter

Fall 2017 FE Review Sessions

The SIUE chapter of Chi Epsilon is providing FE review sessions in Fall 2017 in the Engineering Building at SIUE. They will run for six weeks from **early October through mid-November** in afternoons. Tentative topics to be covered are Statics, Dynamics, Mechanics of Solids, Surveying/Construction, Fluid Mechanics, Mathematics/Statistics, Engineering Economics, Engineering Materials, Hydraulics/Hydrologic Systems, Structural Analysis, Structural Design (Steel/Concrete), Transportation Engineering, Environmental Engineering, and Geotechnical Engineering.

The review sessions are taught mostly by SIUE faculty members and have helped many past students and professionals pass the FE exam. The cost for non-SIUE students is only \$15 per session, which will be collected at the beginning of each review session (make your check payable to "Chi Epsilon"). The final schedule of the review sessions will be available in mid-September at SIUE Chi Epsilon's website (<http://www.ce.siu.edu/xef/>).

Chi Epsilon will also place a group order for purchase of *Civil Engineering FE Review Manual* (published by Brightwood Engineering Education) for a special discount rate of \$60 in late September and will distribute them in the first and second review sessions to those who had ordered a copy. For more information contact Mr. Erich Kopp, Chi Epsilon President (ekopp@siue.edu) or Dr. Nader Panahshahi (npanahs@siue.edu).



UNDERGROUND UTILITIES SOLUTIONS

THURSDAY, OCTOBER 12, 2017 8AM-NOON

MAPLE/DOGWOOD CONFERENCE ROOM IN THE MORRIS UNIVERSITY CENTER
SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE



Hosted by



4 PDH credits will be offered through presentations covering the following topics:

- Drainage Pipe Material Selection for the Real World
- Revitalizing the Underground in Downtown St. Louis with Civil Construction
- The Process for Gas Main Extensions
- Overview and Design of Cured-in-Place Pipe (CIPP) for Gravity Sewers, Storm Drains and Culverts
- Trained Inspectors for Trenchless Rehabilitation Projects

Continental Breakfast and Free Parking Provided

Register online through <https://www.siu.edu/educationaloutreach/registration1.shtml>

or by email cgorsag@siue.edu.

SIUE Civil Engineering Spring and Summer 2017 graduates:

Mohammed Al Towayti, Matthew Bay, Garrett Calvert, Stephen Catalano, Matt Clevenger, Ahmed Eldeeb, Charles Etling, Amanda Fisher, Riley Hoffman, Chloe Huelsmann, Jared Kampwerth, Richard Lee, Sarah Lepp, Zach Malach, Caleb Mau, Kyle A. Mueller, Alec M. Nelson, Ronald E. Peters, Peter Ratermann, Jason Rehg, Corey Schaufelberger, Brandon Schultz, Karlee Schweigert, Dylan Seger, Ryan Steppig, Brett Timmermann, Scott Woodard [John Basso](#), [Matthew Eck](#), [Amanda Kurich](#), [Kendall H. Opfer](#)

Missouri University of Science and Technology

Education that Fits.

Civil and Environmental Engineering

Graduate certificates give YOU the opportunity to broaden your knowledge in a particular discipline, learn the latest in developing fields and stay competitive in today's marketplace.

By taking a few online courses, you will be able to demonstrate advanced knowledge in the field of civil or environmental engineering.

Online Certificate Programs

- **Contemporary Structural Engineering** - Analysis and design of structural systems; including structural vibrations and stability, advanced steel and concrete design, and using composite materials to strengthen structural systems.
- **Geoenvironmental Engineering** - Design, implementation and management of cost effective site assessment and ground investigation, advanced analysis techniques in soil mechanics and environmental topics.
- **Infrastructure Renewal** - Assessment, repair and rehabilitation techniques with an emphasis on composite materials for infrastructure renewal.
- **Project Engineering and Construction Management** - Construction methods and project management, systems engineering and financial risk management.
- **Geotechnical Earthquake Certificate** - Geotechnical design and consideration of soil dynamic interactions with built structures in geotechnical earthquake engineering.

Online Graduate Degrees

Graduate certificate programs may also be used as a pathway to a graduate degree program. **Credits earned in a certificate program can be counted toward the master's degree** so long as you earn a B or better in each certificate course. In this case, you can apply for admission to the department's master's degree programs without needing to submit GRE scores.

For more information, contact the Department of Civil, Architectural and Environmental Engineering at []. Or go online to learn more at: <http://dce.mst.edu/credit/certificates!>

Retirement

Celebrating Career of Jerry Bayless, Unparalleled Contributions to Civil Engineering Education in Missouri -

We invite friends and alumni to celebrate the amazing and unmatched career of Jerry Bayless with a banquet October 26th in Rolla, Missouri. We will be joined by ASCE 2019 President, Robin Kemper, P.E., LEED AP, F.SEI, F.ASCE. Ms. Kemper will make a presentation at 2:00 PM in Butler Carlton Civil Engineering Hall on the future of civil engineering. Registration for the banquet is available at www.MINERALUMNI.COM/HOMECOMING. Seating is limited.

Jerry Bayless has served as an instructor and professor for an unparalleled tenure in the state of Missouri, and has decided to hang up his slide rule and put away his notes. Jerry retired in February 2017 as an associate professor of architectural and environmental engineering at Missouri S&T. He first came to the campus in 1955 as a freshman from Cuba, Missouri. He earned a bachelor of science degree in civil engineering in 1959 — the same year he joined the faculty — and added a master's degree in civil engineering in 1962.

Regardless of the name of the premier engineering institution -- Missouri School of Mines and Metallurgy, the University of Missouri-Rolla or Missouri University of Science and Technology -- Jerry Bayless has served to educate generations of engineers.

Known as "Mr. UMR" for many years, Bayless has educated, trained, mentored and befriended thousands of students. "There's nobody who has made such an impact on our students in our nearly 150 years of civil engineering education in Rolla," says Dr. Joel Burken, Curators' Distinguished Professor and chair of civil, architectural and environmental engineering.

We hope you can join us for this joyous celebration of a career that has impacted the civil engineering profession of Missouri for more than half a century.

"A teacher affects eternity; he can never tell where his influence stops."

- Henry Brooks Adams 1907 (1838-1918)



Jerry Bayless, center, shows students how to use a slide rule.

Bayless served as an assistant to the chair of civil engineering and as the assistant dean of engineering. In 1990, he became associate dean and in 2004 he received the Chancellor Medal. Bayless is a recipient of the Alumni Merit Award, was an honorary St. Pat and parade marshal, and was named a Missouri S&T Alumni of Influence in 2011.

<http://news.mst.edu/2017/02/mr-st-hangs-up-his-slide-rule/>

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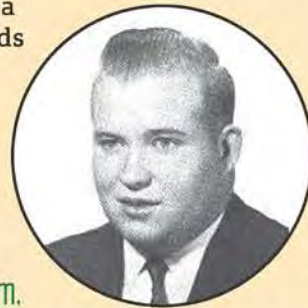
THURSDAY, OCT. 26, 2017

DURING HOMECOMING WEEKEND AS
WE CELEBRATE THE RETIREMENT OF

JERRY BAYLESS



Bayless has been a part of Missouri S&T since he was a first-year student in 1955. He has influenced thousands of students after more than 57 years teaching at S&T.



**Reunite with friends, explore campus
and celebrate your Miner Pride!**

Hasselmann Alumni House | Social Hour: 5 p.m. | Dinner: 7 p.m.

REGISTER ONLINE OR POST A TRIBUTE AT:
MINERALUMNI.COM/HOMECOMING



**Civil, Architectural and
Environmental Engineering**

To submit items to the newsletter...

Please try to get all announcements for placement in the newsletter to the Newsletter Editor by the 20th of the month prior to publication. Items may be sent via e-mail to Jeff Meyer (ASCE newsletter editor) at jameye@stlmsd.com. MS Word files are the preferred file type. PDF files are also acceptable but may not look as sharp when inserted into the newsletter and hyperlinks might not carry through to the final version. For multiple page announcements, please consider providing a single-page flyer, concisely worded, with links provided to ancillary pages such as registration forms or other attachments. Also, please clearly include in the email subject line a concise title for the announcement and desired month(s) of publication.

Most news items will be available on the Section's Web Page, which can be reached via the link on ASCE National Website (www.asce.org). Click on "Geographical and International Units" to link to the Section or go directly to our page at: <http://sections.asce.org/stlouis/index.html>. The Section's Website Editor is Jeff Smith e-mail: JESmith@HNTB.com or via feedback directly from our website.

For more information and updates see our Web Page: [Http://sections.asce.org/stlouis/index.html](http://sections.asce.org/stlouis/index.html)

This newsletter will be sent to all Section members via e-mail. Delivery of the newsletter hardcopy by First Class mail will be made upon request. Members have the responsibility to keep their contact information in the ASCE national database up to date. Please note that the St. Louis Section is only provided with members' PRIMARY information on file at the Society level. To ensure that we can contact you, please edit your PRIMARY information to contain the information where you would like the section to contact you and how you would like your information to appear in our annual roster.

Please be sure to keep your PRIMARY contact information up-to-date by contacting ASCE at <http://www.asce.org>, or call 800-548-ASCE (2723).



**ASCE – St. Louis Section
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