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Upcoming Events

January

- 11 – YMG Meeting
- 18 – EWRI Meeting
- 18 – ASCE Luncheon
- 23 – MSD / ACEC Seminar

February

- 2 – Geo-Institute Webinar
- 17 – Introduce a Girl to Engineers' Day
- 24 – Engineers' Week at the Science Center

March

- 23 – EWRI Spring Seminar



January Luncheon

Thursday, January 18, 2018

Evolving Corps of Engineers Levee Safety Program Update

Abstract: The mission of the Corps Levee Safety Program is to ensure levee systems provide benefit to the nation by working with sponsors and stakeholders to assess, communicate, and manage the risks to people, property, and the environment from inundation associated with the presence of flood risk management systems. A relatively new development is Levee Inventory & Review. This project consists of working with state and local tribes to identify non-USACE portfolio levee systems and provide the owner with a one-time inspections, risk screening, and best practices for maintaining their flood risk reduction asset.

Speaker Bio: Adam Christy is the Acting Levee Safety Program Manager for the USACE St. Louis District. His work includes collaborating with various disciplines of USACE, levee sponsors, and other agencies to reduce the risks associated with living and working behind a levee. Adam holds a Bachelor's Degree in Civil Engineering from the University of Southern Illinois Carbondale. He previously worked in the private sector where he gained experience in a wide array of civil/geotechnical engineering projects, including levee inspections. Click on the link below to RSVP.

[Register Now!](#)

Speaker: Adam Christy - Acting Levee Safety Program Manager, USACE St. Louis District

Time, Date, Location: 11:30am to 1:00pm, January 18, 2018, at The Engineering Center, 4359 Lindell, St. Louis 63108. Registration starts at 11:30am and lunch is served at 11:45am. The program will begin promptly at 12:00pm. One (1) PDH available.

Cost: \$20/person (checks payable to SAME St. Louis). Credit card payment only available online.

Registration: Please register and pay online using the link above for reservations by 5:00 pm, Monday, January 15. SAME is charged for all reserved lunches. If you've signed up and can't make it, please cancel by January 15 before the meeting or we may have to charge you for the meal.

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President's Message



Here we are at the start of another year. I hope that you all had a very healthy and prosperous 2017, and are looking forward to an even better 2018. I'm not really the type of person to make New Year's resolutions. If you are, I wish you the best in keeping true to them the whole year. I do, however, tend to look to the new year as an opportunity to set new goals, whether it be in work or personal life.

As civil engineers, we hope that the federal government seizes the opportunity of a new year to pass an Infrastructure Spending Plan. The Trump Administration has indicated they plan to release such a plan in 2018. Ok, so maybe this is a little later than the first 100 days of the Presidency, as was promised, and it will certainly be long overdue. Probably an even longer shot is that such a bill can get passed with bipartisan support in 2018. Although it's easy to feel like this is never going to happen, there is reason for optimism. Infrastructure spending is more a topic of discussion at the federal level than maybe ever before, and both sides of the aisle seem to realize the importance of passing such a bill.

ASCE has been instrumental over the past several years to get America's near-failing infrastructure on the table for discussion at the state and federal levels. The overall grade of D+ was released last year by ASCE and the organization has identified a \$2 trillion funding gap by 2025 if new funding solutions aren't identified and put into action. Some of these solutions could include increases to the gas tax and/or public-private partnerships. Just today (1/2/18), the St. Louis Post Dispatch cited the results of a Missouri Transportation Taskforce recommending a 10-cent fuel tax increase. Similar increases are being discussed at the federal level.

Your state ASCE leaders are also working hard to educate Missouri's residents and government on the current condition of the state's infrastructure. ASCE members from both the Kansas City and St. Louis Sections will release the Missouri Infrastructure Report Card in 2018, as a five year update to its 2013 effort. Keep an eye out for publicity in this regard, and let's keep the conversation going. Although the economy looks to stay strong in 2018, we desperately need a resolution on infrastructure spending this year. Here's to a great year for all of you, and here's to hoping that the federal and state leaders have passing an Infrastructure Spending Plan as a New Year's resolution of their own.

Respectfully,

Lyle Simonton, P.E.

<mailto:lsimonton@subsurfaceconstructors.com>

ASCE Younger Members Group

Our Group Gives Back!

Thank you to all our volunteers that came out to give back at Operation Food Search. We had a wonderful time packing boxes to give to local food shelters.

See you at our Next Meeting!

Thanks to everyone who came out to our meeting at ITAP last month! Join us for our next meeting at Flannery's Pub! Plan on attending? E-mail Melissa.Marks@ch2m.com



January YMG Meeting:

Thursday, January 11, 2018
Flannery's Pub
1320 Washington Avenue, 63103
6 pm to 8 pm
<https://www.internationaltaphouse.com/>

Engineers' Week at the Science Center – Volunteer Opportunity

Our Younger Members Group will be hosting a display at the NSPE/MSPE Engineers' Week at the Saint Louis Science Center on **Saturday, February 24th from 9:30 AM to 4:30 PM**. Please e-mail Melissa at Melissa.Marks@ch2m.com if you are interested in signing up for a volunteer shift.

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

Administration Openings

ASCE St. Louis Section is seeking dedicated members to open chair committees as briefly described below, with the opportunity that the incoming chair will "make it their own."

Membership Champion - The Membership Champion will be responsible for promoting membership in ASCE of all qualified civil engineers, and to encourage active membership in the local section by all ASCE members in the area. Responsibilities also include outreach to non-member civil engineers in the area, inviting them to Section meetings, and encouraging them to join and become active in ASCE.

Newsletter Editor – The Newsletter Editor will be responsible for producing and publishing the ASCE St. Louis Section monthly newsletter and mid-monthly updates, distributed electronically via email to Section membership. The Newsletter includes announcements regarding activities of the Section and furnishing news, both professional and personal, of special interest to the members. The Editor's primary goal is to communicate to all local members news of past, present, and future activities and programs for the purpose of stimulating greater interest and participation in Section affairs.

Email Maintenance – Not hearing from us?

We have been working to clean up our email contact lists in Constant Contact which we use to send emails to members, take registrations for luncheons, meetings, seminars, webinars, etc. We have also been learning about what we can and cannot do regarding email addresses that don't seem to work. The rules that Constant Contact has developed in their system are meant to keep us in compliance with the CAN-SPAM laws.



We receive frequent member contact information updates from ASCE. In fact, we recently removed all email addresses from our main contact list of St. Louis Section members and imported the official contact information from ASCE as of the end of 2017. This should resolve problems some members may have had receiving email messages from us. However, that is only part of the process needed to communicate with our members.

We have many contacts in our various email lists that for one reason or another cannot receive emails from us. The likely reasons include:

- ✚ **Unsubscribed** - Eighty-six of our nearly 1600 members have apparently Unsubscribed from our mailing list. Perhaps some intended to use a different email address but have not yet updated their ASCE profile with their primary contact information.)
- ✚ **Awaiting confirmation** - Depending on how the email address was added the system, they should have received a confirmation email message, but did not reply, so their email address is stuck in limbo.
- ✚ **Undeliverable** – The email address was determined to be unusable or non-existent, maybe due to typos or expired addresses, like @members.asce.org which are no longer provided by ASCE for email forwarding.
- ✚ **Blocked** – The intended recipient's corporate email system may be blocking messages from one or more of the addresses that Constant Contact uses. This could have been in response to unwanted emails from other users of the Constant Contact system, but that carries through to all future CC users that send to the blocked email address. In this case the recipient may need to have Constant Contact whitelisted in their corporate email system. You and your ITS people can find more information about this at <https://knowledgebase.constantcontact.com/articles/KnowledgeBase/7656-isps-and-blocked-email>.
- ✚ **Suspended** - The Constant Contact email system gave up for one or more of the reasons listed above.)

We have to be very careful to NOT send email to anyone with any of these status conditions since it could violate the CAN-SPAM regulations. In general, a member should contact us to request our help. Once the member contacts us we can help to get their contact info updated and status cleaned up so they can receive email messages from us.

ASCE
St. Louis Section

Sign up to stay in touch!

Sign up to get interesting news and updates delivered to your inbox.

* Email Address

* First Name

* Last Name

Email Lists

2018 General Interest

EWRI St. Louis Chapter

ISI St. Louis Chapter

SEI St. Louis Chapter

Sign Up

By submitting this form, you are granting ASCE St. Louis Section, The Engineering Council, St. Louis, MO, 63102 United States, the irrevocable and exclusive right to use your name and contact information. You are hereby authorizing us to add your email address to any one or more of the following email lists based on the bottom of every email. We have your primary mailing list set for you. Please visit our Social Chapter Page. Emails are approved by Constant Contact.

Two things to do if you are having problems receiving email messages from us.

1. Be sure your primary contact information is setup correctly at www.asce.org. We are obligated by ASCE to use your primary contact email address.
2. One quick way to try resolve a range of problems is to complete our email sign-up form at <https://goo.gl/mosnAj> (or click image shown at right.) This form will allow members to add themselves to our members-focused email lists or to resolve some problems they may be having. Be sure to look for and reply to any confirmation email that they might send to you.



If you have questions or need help with receiving emails from us then please let me know.

Brent Vaughn (brent.vaughn.asce@gmail.com)
Chair, Communications Committee

Call for Concrete Canoe Judges

Southern Illinois University Carbondale is hosting this year's Mid-Continent Student Conference April 19-21, 2018. We are in search of engineers within the St. Louis ASCE section that might be willing to donate their time and expertise in judging the student competitions. We welcome all professionals and especially those with past concrete canoe or geo-wall judging experience. If interested in judging either of the competitions, please email Addison Jobe at jobey248@siu.edu

Introduce a Girl to Engineering Day at SIUE

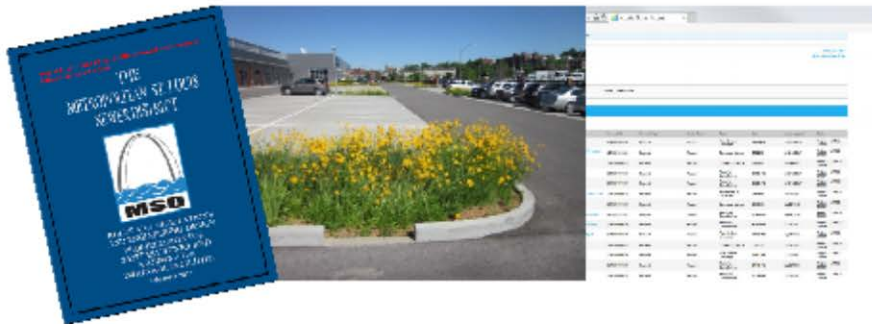
Please save the date of Saturday, February 17th, 2108 for the "Introduce a Girl to Engineering Day" annual event at Southern Illinois University Edwardsville, hosted by the SIUE Society of Women Engineers. For more information please contact the SIUE SWE chapter at swesiu@gmail.com.

MSD / ACEC SEMINAR SERIES



This is the 6th in the series of ACEC and MSD sponsored informational seminars to provide the consulting community with insight into some of the specific programs and new developments at MSD.

**ST. LOUIS MSD RULES & REGULATIONS, FEE UPDATES & ACCELA - NEW
ONLINE PLAN REVIEW, PERMITTING & INSPECTION WEBSITE**



Bruce Litzinger, PE – Assistant Director of Engineering, MSD Planning
John Grimm, PE – Program Manager, MSD Development Review

January 23, 2018

Registration and Networking at 7:30 am
Program

Rules and Regulations from 8:00 am to 8:20 am
Fee Increases from 8:20 am to 8:45 am
Accela from 8:45 am to 9:30 am
Questions from 9:30 am to 10:00 am

The Engineering Center of St. Louis
4359 Lindell Blvd, St Louis, MO 63108

Continental Breakfast Served

Cost is \$15 per person. Make checks payable to ACEC/MO. (No-shows will be charged)

Register by January 19th by contacting the Engineers' Club via email at info@engineersclub.net or phone at 314-533-9333.



**GEO-
INSTITUTE**
St. Louis Chapter



Geo-Institute of ASCE – St. Louis Chapter
Presents a webinar titled

Underpinning and Strengthening of Foundations

- DATE AND TIME:** Friday, February 2, 2018
Doors open at 10:00AM for registration
Live webinar from 10:30AM to 12:00PM
Pizza and soda/water will be provided.
- LOCATION:** Geotechnology, 11816 Lackland Road, Suite 150, St. Louis, MO 63146
Remote access is not available.
- COST:** \$10.00 per person. Payment can be made by cash, credit card, or check (payable to ASCE St. Louis Section).
- PDH:** Attendees will earn 1.5 PDH
- RSVP:** *Please register by Wednesday, January 31* at <https://goo.gl/sxVECG> (case sensitive)

Topics include:

- Introduction: Why strengthen foundations
- General approach and methods
- Adding supports
- Shoring and replacement
- Underpinning
 - Pit underpinning
 - Using drilled piers, minipiles, proprietary piers
- Enlarging footings
- Other strengthening topics
- Modifying soil properties

If you've signed up and can't make it, please cancel with Jake Schaeffer (jschaeffer@mps-il.com or 314-560-9154) by Wednesday, January 31 or we will have to charge you for the meal.



ENVIRONMENTAL &
WATER RESOURCES
INSTITUTE
St. Louis Chapter

THE ASCE ST. LOUIS SECTION AND EWRI PRESENT

2018 Environmental & Water Resources Institute Spring Seminar

WATER, WATER, EVERYWHERE

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

Seminar will be held at:
The Engineering Center
4359 Lindell Blvd., St. Louis, MO 63108

SAVE THE DATE: FRIDAY, MARCH 23, 2018

**Topics will include St. Louis MSD Rules and
Regulations Changes**

Full program to be announced

Sponsorships available for \$150

Questions?
Jiaman Xu
ASCE/EWRI Spring Seminar Committee Chair
314-880-4431
jxu@civildesigninc.com

2018

EWRI St. Louis News

The next general meeting of the St. Louis Section of EWRI will be at 10:30 AM on Thursday January 18, 2018 at the Engineers Club on Lindell Boulevard in St. Louis. All ASCE EWRI members from the St. Louis section are invited to attend. This meeting will precede the ASCE St. Louis Section Monthly Meeting. If you have questions, please contact Bob Holmes (bholmes@usgs.gov)

Annual ASCE/ASLA Golf Tournament



Save the date!!

ASCE and ASLA will hold our Annual ASCE/ASLA Golf Tournament the morning of Friday, September 7, 2018 at Forest Park Golf Course. Registration and sponsorship information are coming to the ASCE website and newsletter. In the meantime, mark your calendars now to help raise money for our scholarship fund!

Contact Matt Glisson at 314.569.9883 or mglisson@braunintertec.com for more information.

Employment

Structural Engineer – 5 to 10 years

Oates Associates is an established engineering practice offering civil and structural engineering services for transportation, site and building projects. To accommodate the continued growth in our building and site department, we are seeking a structural engineer for a project engineer/manager position. Work will be out of our St. Louis, MO office. The ideal candidate will possess the following:

- Bachelors in Civil or Architectural Engineering – Masters is a plus;
- PE license – SE license is a plus;
- 5 - 10 years of engineering experience;
- Proficient in AutoCAD and Microsoft Office;
- Strong writing and presentation skills;
- Experience performing construction administration tasks;
- Working knowledge of structural engineering software (RAM, RISA) - REQUIRED;
- Working knowledge of building codes (IBC, ASCE, ACI, AISC) - REQUIRED;
- Construction Drawing and Specification Preparation - REQUIRED.
- Strong Technical skills in the following areas is a plus:
 - Structural Steel Design.
 - Reinforced Concrete Design.
- Demonstrated ability to market and sell professional services to existing and prospective clients.

The firm is an equal opportunity employer that offers competitive salaries, an excellent benefit package, great working environment in new office space, flex-time, opportunity for quick advancement and ownership potential. We seek to develop a more diversified workforce and welcome female, minority and veteran candidates for this position. Please send resume and salary history to:

OATES ASSOCIATES, INC.
100 Lanter Court, Suite 1
Collinsville, IL 62234
618.345.2200
618.345.7233
oai@oatesassociates.com
www.oatesassociates.com

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

University News

Gain the Competitive Edge

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

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

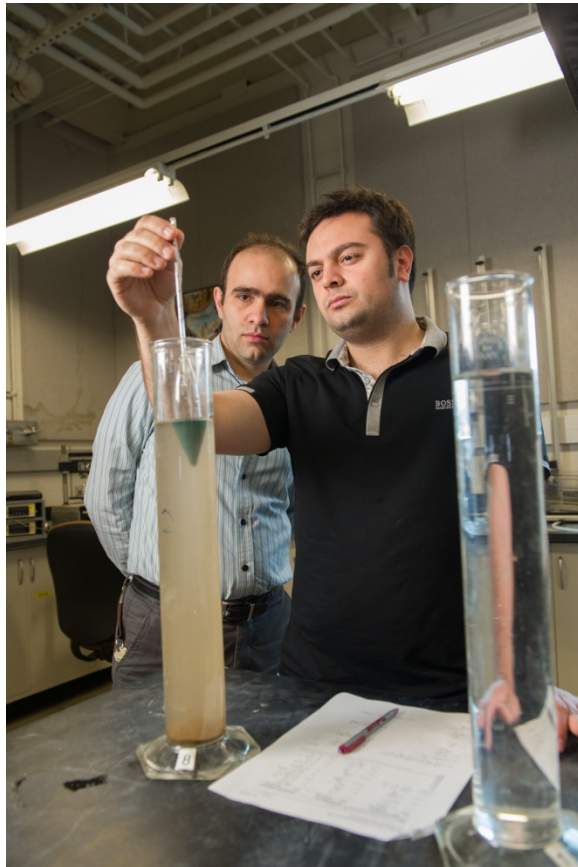
CE 457 Soil Mechanics in Engineering
CE 492-11 Soil Improvement Methods
CE 592-02 Advanced Soil Mechanics

Spring 2018

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

More information is available at:

<http://www.siu.edu/engineering/civilengineering/graduate/geotechnical.shtml>



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program
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potential

field.

learn
experts

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

SCHOOL OF ENGINEERING

If you are interested in the graduate program, contact Dr. Huang at <mailto:jiahuan@siue.edu>. For information on the geotechnical program, contact Dr. Reza Osouli at aosouli@siue.edu.

siue.edu/engineering



CVNG 4350/5350 - Physical and Numerical Hydraulic Modeling

**SAINT LOUIS
UNIVERSITY™**
— EST. 1818 —

Spring 2018: 4:35 to 5:50 on Mondays and Wednesdays

Techniques for physical and numerical hydraulic modeling with a focus on open-channel flow applications.

River models allow you predict water depth, flow velocity and sediment transport in complex waterways including river reaches, estuaries, and bays.

3 credit hour course

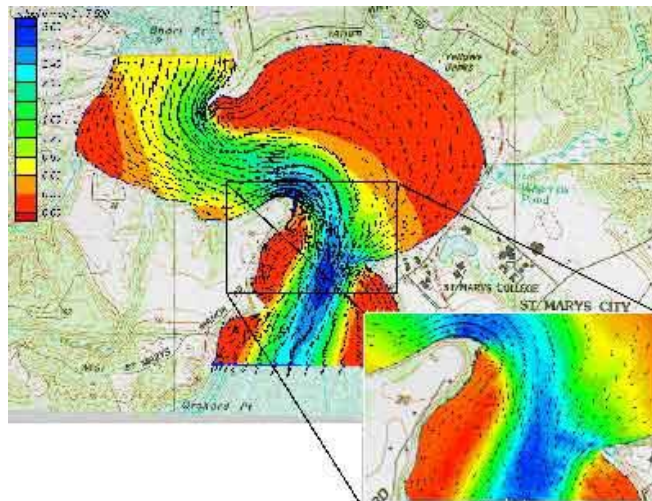
Prerequisite: CVNG 3130 – Hydraulic Engineering, or instructor approval

Physical Modeling

- Scaling Techniques and Theory (Similitude and Dimensional Analysis)
- Physical Modeling of Single-phase Flow (water), and Mobile-boundary Flow (erosion and sedimentation).
- Design, Construction, Instrumentation, and Operation of Physical Models
- Case Studies

Numerical Modeling

- Governing Equations and Turbulence Models
- Project Background Data and Model Development
 - Processing LiDAR data
 - 2-D Models
 - 3-D Models
 - Sediment Transport Models
- 2-D and 3-D Modeling
 - 2-D hydrodynamic modeling using Surface-water Modeling Solution (SMS) with SRH-2D and ADH
 - CFD Modeling using STAR-CCM+
- Case Studies





SAINT LOUIS
UNIVERSITY™
— EST. 1818 —

The Department of Civil Engineering at Saint Louis University will be offering the following courses in the Spring 2018 semester (starts January 16, 2018):

- **CVNG 4350/5350 - Physical and Numerical Hydraulic Modeling**
Instructor: Amanda Cox, Ph.D., P.E.
- **CVNG 4150/5150 - Prestressed Concrete**
Instructor: Chris Carroll, Ph.D., P.E.
- **CVNG 4130/5130 – Bridge Engineering**
Instructor: Daniel H. Tobias, Ph.D., P.E., S.E.
- **CVNG 4150/5150 – Environmental Solutions in Developing Countries**
Instructor: Craig Adams, Ph.D., P.E.

More details on each course in the following pages. You can also search for courses going to this link:

https://banner.slu.edu/ssbprd/bwckschd.p_disp_dyn_sched

Then select term, and then select academic department

MISSOURI S&T Global-St. Louis

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SCIENCE
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To learn more, contact us by phone at 314-835-9822 or email global-stl@mst.edu.

APPLY TODAY!

DISTANCE GRADUATE DEGREES & CERTIFICATE PROGRAMS

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Civil Engineering (MS)
Computer Engineering (MS)
Computer Science (MS)
Electrical Engineering (MS)
Engineering Management (MS)
Environmental Engineering (MS)
Explosives Engineering (MS)
Geotechnics (ME)
Industrial-Organizational Psychology (MS)
Information Science & Technology (MS)
Manufacturing Engineering (ME, MS)
Mechanical Engineering (MS)
Mining Engineering (MS)
Systems Engineering (MS)
Technical Communication (MS)

Doctorate Degrees (PhD/DE) are available on a case-by-case basis. Interested students should contact the corresponding academic department for details.

Graduate certificate programs are a great way to start earning college credit toward a graduate degree.



Application Deadline: There is no set deadline, but apply early to ensure class selections.
Fall Semester - August | Spring Semester - December | Summer Session - May

global-stl.mst.edu | global-stl@mst.edu | 314-835-9822

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/>

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 Brent Vaughn (ASCE newsletter editor) at brent.vaughn.asce@gmail.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
c/o The Engineering Center
4359 Lindell Blvd. St. Louis, MO 63108**