

# Civil Engineer<sup>KANSAS CITY</sup> THE NEWSLETTER

October 2021

## CHECK OUT THE CENTENNIAL FILM ON YOUTUBE!!

<https://www.youtube.com/watch?v=GOO4nKU2CUQ&list=TLGGx6A74mLaQRExMzEwMjAyMQ&t=1s>

## UPCOMING EVENTS

### October

20<sup>th</sup> - YMG Meeting

25<sup>th</sup> – UMKC  
Mentorship Event

### November

16<sup>th</sup> – Virtual  
Presentation on Green  
Infrastructure in New  
Orleans

## From the President



Greetings Fellow Civil Engineers, Esteemed Colleagues, and Friends! As I watch the leaves turn color and fall during this beautiful season of change, I am reminded that time marches on at the same pace, regardless of other things that are happening. As we think on the past 2 years, experiences are so different from any other part of our lives. For me, March 2020 seems like last week at times, and at other times it seems like a lifetime ago. Many of us have been awaiting a return to

what we thought is “normal”, and we are finding that normal will be different moving forward for all of us. As Civil Engineers, we are trained to work with uncertainty in the various (and sometimes changing) timelines, designs, opportunities, and constraints in our projects. We will need to apply these skills more broadly going forward to maintain the quality of life we have come to expect for ourselves, our families, friends, coworkers, and others around us.

Our Section Centennial Celebration has been subject to the uncertainty in our area around guidance for safe gatherings. We had anticipated a Gala to include guest speakers, historical re-enactor, displays, good food, great company, and a broad celebration of the last 100 years and the coming 100 years of civil engineering accomplishments and opportunities in the Kansas City area. While our gala celebration may not happen, we recently held a picnic for all of our membership where we were able to come together and reminisce about previous experiences and look ahead to upcoming opportunities. We released a KC Section Centennial Film, a short film featuring local civil engineers discussing civil engineering in the Kansas City area. We will continue to look for opportunities to celebrate the great contributions of civil engineers to building and maintaining the modern conveniences we enjoy every day.

## **2021-2022 ASCE Directors**

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We will continue to encounter uncertainty in our future. However, we can move forward with confidence that solutions will be identified, improvements made, and lives enhanced. We can be a part of the discussion and solutions on a variety of topics. There will continue to be times of trial and hardship, mixed with joys and happiness. We won't all agree, but we can seek out those areas where we can work together to find and improve the good in our world. Each of us can make a difference in the life of at least one person around us. Let's be engaged in making life around us a little better.

- Chad Johnson

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## **PE Review Course Scholarship**

**REMINDER!! The PE Review Course Scholarship Application is still available to submit.**

Are you taking the PE this year? Were you burdened with the cost of a review course and/or materials? Your ASCE Kansas City Section friends are here to help!

Please see the linked [PE Review Course scholarship application](#) for this year. Please note this is retroactive and able to cover costs incurred over this last ASCE calendar year beginning in June 2020.

Furthermore, if you plan to take the exam, or just passed the exam, please contact me so I can build a list of folks to connect or recognize. Enhancing the success of our members is a high priority in our organization.

Good luck on the exam!

## Centennial Celebration

### ASCE KC Section Picnic

Our ASCE Section hosted a picnic for all members to celebrate our centennial and mark an opportunity to see old friends and make new ones at an in-person event. We met at Ad Astra Park in Lenexa, a wonderful venue as summer turns to fall. We briefly commemorated the early pioneers of our Section, who began meeting over 100 years ago to further the exchange of ideas and improve the understanding of civil engineering importance to a civil society. Much has been accomplished over the last 100 years by civil engineers around Kansas City, and we will continue to be an integral part of improving society over the next 100 years. All enjoyed good food and good company on a bright, sunny day.



### ASCE National Historic Civil Engineering Landmarks

As we celebrate our 100 years of history, we'd like to share some of the highlights of our Section. One of the most visible works of ASCE is the National Historic Civil Engineering Landmarks program. We have 3 of these landmarks in the Kansas City Section and wanted to give some information about them.

#### *Armour-Swift-Burlington Bridge - Completed on January 2nd, 1912*



Dedicated on April 25<sup>th</sup>, 1996, the Amour-Swift-Burlington (ASB) Bridge was built to serve as a rail, car, wagon and pedestrian crossing of the Missouri River at Kansas City. The famous bridge engineer, John Alexander Low

Waddell, was the primary designer of the bridge. Waddell's firm of Waddell & Harrington can be traced to two of today's Kansas City engineering firms – HNTB Corporation and Harrington & Cortelyou. The bridge is one of only two of its type ever built. To satisfy the railroad's need for the railroad tracks across the bridge to be as low as possible and the riverboats' need to have enough clearance under the bridge, Waddell developed a unique design that had automobile traffic on a top deck and rail traffic on a lower deck that could be raised to allow riverboats to pass. The lifting of the lower deck was accomplished by telescoping the hangers of the lower deck into the truss members of the upper deck, thus allowing car traffic to continue even when the lower deck was raised.



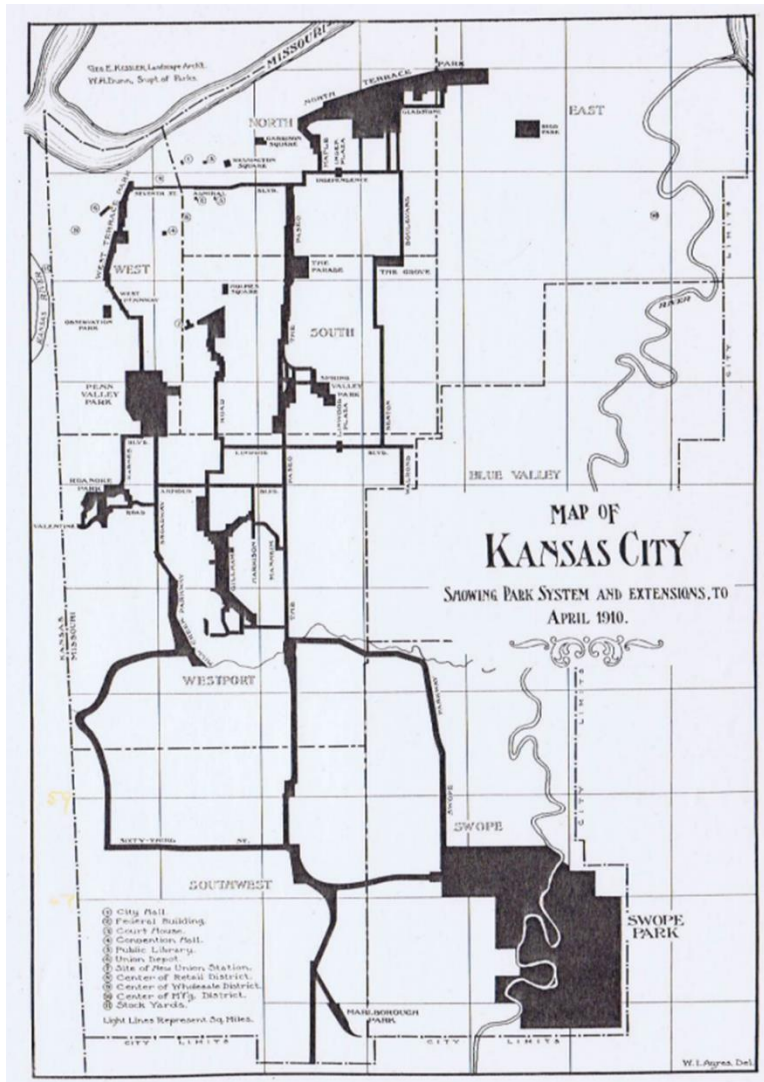
*Union Station - Completed on October 30th, 1914*



Dedicated on December 15th, 1914, Union Station served a peak annual traffic of more than 670,000 passengers in 1945. The design was a main hall for ticketing, and a perpendicular hall extending out over the tracks for passenger waiting. The building encompassed 850,000 square feet, the ceiling in the Grand Hall is 95 feet high, there are three chandeliers weighing 3,500 pounds each, and the Grand Hall clock has

a six-foot diameter face. Due to its central location, Kansas City was a hub for both passenger and freight rail traffic. The scale of the building reflected this status.

*Kansas City Park and Boulevard System - Designated in 1914*



The Kansas City Park and Boulevard System, a pioneer urban planning project, was among the first to integrate the aesthetics of landscape architecture with the practicality of city planning, park development, street design and construction, stimulating other metropolitan areas in the United States to undertake similar projects. At the turn of the 20th century, Kansas City distinguished itself by developing a plan for this system. Swope Park is the largest of the parks within the system and is home to the Kansas City Zoo, Starlight Theatre, a golf course, and many other amenities. It is one of the largest urban parks in the United States.

## ASCE Younger Member Group

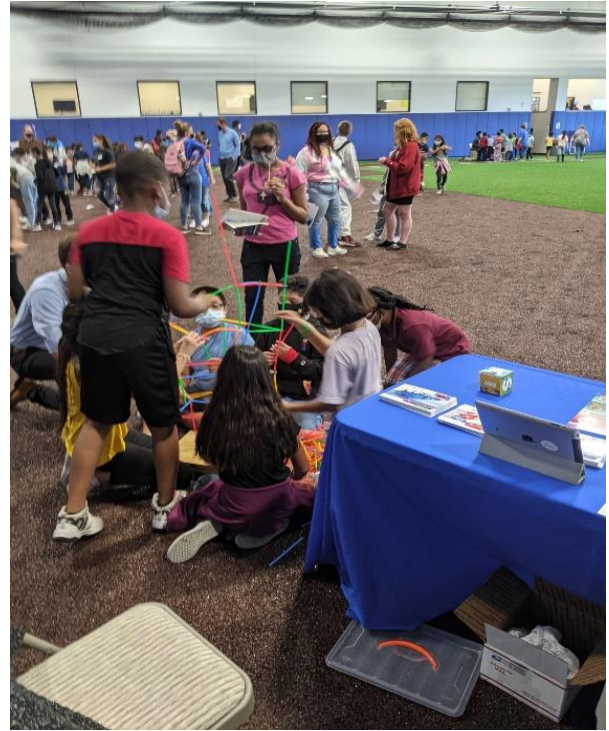
The Younger Member Group has continued to provide engaging programming for members. On July 23, we hosted a Royals tailgate, sponsored by Olsson. Thanks to all who came out to cheer on our KC Royals!



The YMG also hosted an outdoor monthly meeting at City Barrel Brewery on September 15th. We were happy to see many familiar faces and a few new ones as well!



In September, our School Outreach Co-Chairs hosted a booth at the Kansas City Urban Youth Academy Alex Gordon Family Field alongside aSTEAM Village for their Community STEM Day. K-12 students in attendance played giant jenga and built their own structures using straws. Thank you to our Co-Chairs and the group of volunteers who made this event a success!



### **Upcoming Events:**

09/28 - [Briarcliff Trail Project Tour and Happy Hour](#)

10/02 - [Trail Cleanup Volunteer Event](#)

10/14 - Simpson Strongtie Demo/Facility Tour

10/20 - YMG Monthly Meeting (location TBD, outdoor venue)

### **ASCE Charity Golf Tournament Spotlight**

The YMG hosted the 15th annual ASCE YMG Charity Golf Tournament on August 13th at Shoal Creek Golf Course. We had 112 golfers participate and over 20 day-of volunteers to make sure the tournament ran smoothly. Thank you to all those who participated! A special thank you to Tournament Co-Chairs Matthew McCrave (Burns & McDonnell) and Anthony Brown (McClure).

Tournament proceeds were donated to KC STEM Alliance to support their efforts with the Project Lead the Way Civil Engineering and Architecture course. We were able to donate \$17,000 this year!



## Missouri S&T Student Chapter Update

As we slip into fall, we are glad to share an update from Rolla with exciting updates on our students, alumni and faculty. Most timely, I want to draw attention to our homecoming events and kicking off the 150<sup>th</sup> celebration. In celebration, alumni and friends are invited back to celebrate [homecoming](#) and the kick off of our 150<sup>th</sup> activities, including tours of the new expansion to Butler-Carlton Civil Engineering Hall or join for the [Stueck Distinguished Lecture](#) as well. We are excited to host **Dr. Don Wuebbles** who shared the **2007 Nobel Peace Prize** as the **2021 speaker**. Join us at 1:30 p.m. Friday, **Oct. 8**, at **Leach Theatre** and available on webinar [Zoom](#). As part of our distinguished lecture series, our ASCE student chapter will also host





**ASCE President Dr. Dennis Truax October 20<sup>th</sup>, 7:00 PM that will be broadcast as a webinar.**

Webinar of Lecture Series: <https://umsystem.zoom.us/j/92489242927#success>

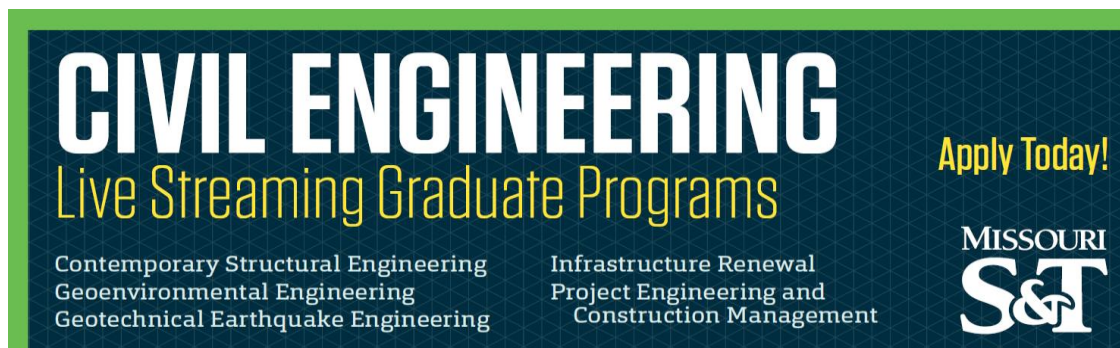
The latest [USNews and World Rankings](#) offered some exciting news! Our Civil Engineering undergraduate program was ranked at #31 nationally, and #21 among public universities. Internationally there are 337 ABET accredited civil engineering undergraduate programs total. The ranking is the highest of any engineering program in Missouri. We are proud of the reputation and look to continue to build up our legacy going forward.

The new edition of the [Common Ground](#) is available and focuses on our amazing students is hitting the mail this week and highlights the remarkable accomplishments of students and alumni. From placing 2<sup>nd</sup> internationally in the Department of Energy Solar Decathlon to a three-peat of Steel Bridge as midwest champions, our students and alumni have amazing accomplishment.

We are also expanding our programs, including a new Construction Engineering Minor in 2021 and online courses to join our existing distance education degree programs. We have three new graduate certificate programs that started this fall, include:

- **Advanced Materials for Sustainable Infrastructure.**
- **Building Systems Engineering.**
- **Surface Water Resources.**

These offerings join our five existing certificates, and each can be used to pursue a MS degree in civil or environmental engineering, entirely online or in person. The S&T engineering online programs are ranked in the top 20 in [US News](#). Our full listing of opportunities is at: <https://distance.mst.edu/care/> or through the new Missouri Online portal for all online education opportunities: <https://online.missouri.edu/degrees-programs>. The future is still partly shrouded in questions and uncertainty, but we are resilient and fully back on campus in Rolla MO this fall, as well as projecting programs through our online programs. We are always looking to provide premier education for our beloved profession. Whatever the future holds, our students and alumni will be there to help shape the future of our profession and our world! For more information, contact us at anytime, [CArE@mst.edu](mailto:CArE@mst.edu).

A promotional banner for Missouri S&T's Civil Engineering Live Streaming Graduate Programs. The banner has a dark blue background with a green border on the left. The text "CIVIL ENGINEERING" is in large, bold, white capital letters. Below it, "Live Streaming Graduate Programs" is in a yellow, sans-serif font. To the right, "Apply Today!" is in yellow. At the bottom, there are two columns of white text listing program areas: "Contemporary Structural Engineering", "Geoenvironmental Engineering", and "Geotechnical Earthquake Engineering" on the left; "Infrastructure Renewal", "Project Engineering and Construction Management" on the right. The Missouri S&T logo is in the bottom right corner.

**CIVIL ENGINEERING**  
**Live Streaming Graduate Programs**

**Apply Today!**

Contemporary Structural Engineering  
Geoenvironmental Engineering  
Geotechnical Earthquake Engineering

Infrastructure Renewal  
Project Engineering and  
Construction Management

MISSOURI  
**S&T**

Utilities also donated the utility poles. Lowe's provided a discount on the treated lumber used for decking. Anderson Engineering and Olsson both provided labor, expertise, refreshments, and good company.



## UMKC Concrete Canoe Update

This past month has been busy for all student teams at UMKC, with recruitment, in-person meetings, and planning proceeding full-steam ahead. Concrete Canoe is no exception, and we have jumped right into design work, preliminary construction planning, and getting our new members up to speed on paddling. Hull design has gotten off to a great start, and a preliminary design has been made as a scale model to test its stability and hydrodynamics.

Our concrete team has also completed three mix designs, and we are currently testing each one for strength, durability, and density.

We have recruited a lot of new people, both under- and upperclassmen. Recruitment was successfully done through school-sponsored events (Unionfest and the SCE Student Organization Fair) and on a personal basis. Almost all of our team can be seen in the picture at the top of the newsletter, although a few folks are not in this photo. We are optimistic that the team will continue after the first generation of members has graduated due to the interest shown by our underclassman members. If you have any questions about UMKC Concrete Canoe or would like to donate to the team, please reach out to Sean Purdue at [srpqam@umsystem.edu](mailto:srpqam@umsystem.edu). Roo Up!



# MSU Student Chapter Update



## Missouri State University Civil Engineering September 2021 Newsletter

### Upcoming Events

#### Rolla Career Fair

9/27-9/28, 2021



#### Anderson Speaking Engagement

10/5/2021



#### Steel Bridge Meeting

9/17/2021

Not a member of  
the ASCE yet?  
Join today!

[www.asce.org/communities/  
student-members](http://www.asce.org/communities/student-members)

### MSU STUDENT CHAPTER OF THE ASCE

#### Welcome Back!

Hello members of the MSU Student Chapter of the ASCE,

We are excited to welcome everyone back for the Fall 2021 semester. It seems like our club has been in hibernation since COVID-19 arrived in the spring of 2020, but we are ready to get our club back into action. We have a lot going on this semester including new officers to welcome, professional speakers lined up, and many new events and competitions to get involved with. We saw a good turnout at our first ASCE meeting with a lot of new faces as well as some familiar ones looking to get involved this semester. We are excited to have everyone involved and are eager to help you get the most out of your ASCE membership!

#### Anderson Engineering Scheduled To Speak To MSU Students Tuesday, October 5th



We are pleased to announce that **Anderson Engineering** will be speaking with the Civil Engineering students at Missouri State University on October 5th, 2021 in Room 1030 at noon. Anderson Engineering is an established engineering firm in the Springfield Area that specializes in Land Development, Public Infrastructure, Geotechnical Engineering, Structural Engineering, and Land Survey/GIS services. Please set aside time to attend their presentation and learn more about a local professional engineering company!

#### ASCE Gets Involved with MSU CNAS



The ASCE was proud to participate in the recent College of Natural Sciences (CNAS) event designed to increase awareness of the different student organizations around campus. It was also a great time to meet newer college student and share with them the benefits of a career path associated with a Civil Engineering degree from MSU/MST. Our ASCE chapter looks forward to participating in more events with CNAS as the semester goes on.

#### Missouri State Steel Bridge Team First Rules Meeting



Are you ready to get involved in a hands-on design project? The Steel Bridge Team is hosting their first meeting for the semester to discuss the benefits of joining the team. If you are interested in steel design or joining the Steel Bridge Team for this year, then add this meeting to the calendar. For more information on the Steel Bridge Team, you can also email the co-captains Luther Harris <luh915@live.missouristate.edu> or Joshua Finley <finley406@live.missouristate.edu>.

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## New ASCE Student Officers



### Acting President — Jason Coleman

Jason Coleman is a senior at MSU/MST who will be graduating in December 2021. In the spring of 2021, he became a student officer as Treasurer of the MSU Student Chapter of the ASCE and is currently the Acting President for the organization for the Fall 2021 semester. He enjoys being involved with campus projects, including leading the Bike Bridge project at Fellows Lake in Springfield last spring and participating in some Pollution Prevention assessment with area companies to reduce waste and energy. He is currently a Design Engineering Intern for Anderson Engineering in Springfield, Missouri.



### President Elect — Luther Harris

Luther Harris is a senior who will be graduating in May 2022. He is from Dallas, Texas and has worked for the Texas Department of Transportation and Bartlett & West as an intern working on transportation-related projects. He has yet to decide where he wants to work when he graduates, but he loves his hometown and would like to go back and work with his community in Texas so he can build a better tomorrow. Luther has been a part of ASCE since starting college and is also the current Captain of the MSU Steel Bridge team. He is excited to work with all of the ASCE student officers and members. Luther has already set some ambitious goals for the club and feels confident that we can achieve them.



### Vice President Elect — Drake Johnston

Drake Johnston is a junior at MSU/MST and will be graduating in May 2023. He joined the Missouri State University ASCE student chapter in the spring of 2021 and soon after became an officer as Secretary. Drake enjoys working on team projects, including his Engineering Design and Development project in the fall of 2018 to the spring of 2019. Drake is also involved in the Steel Bridge design team and is actively looking for new competitions and activities for our chapter of the ASCE to participate in.



### Secretary Elect — Joshua Finley

Joshua Finley is a senior who will be graduating in May 2023. He is the Co-Captain of the Missouri State Steel Bridge team. Joshua started my college education at Montana State University in Mechanical Engineering but transferred to Missouri State to study Civil Engineering in 2019. Much of his time outside of school has been spent as a Wildland Fire-fighter based out of Montana, traveling the western United States fighting wildfires.

### Treasurer Elect — You???

Want to get more involved? We still have one remaining officer role for someone to get involved in a leadership position with the MSU Student Chapter of the ASCE. This is a great opportunity to take an active role with an organization that most Civil Engineers will be involved with well beyond their collegiate years. Take advantage of this opportunity

To contact the MSU Chapter of the ASCE, please call Jason Coleman at (417) 818-7957 or send an email to [jc0143@live.missouristate.edu](mailto:jc0143@live.missouristate.edu).

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