

CIVIL SOURCE

ASCE UTAH SECTION NEWS LETTER

FEBRUARY 2024

President's Message

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Even with an extra day this February feels like it is flying by. Several of our branch and section leaders attended the Multi-Region Leadership Conference in Seattle earlier this month. The conference consists of 3 concurrent conferences: 1) Workshop for Section, Branch, and Institute Leaders 2) Workshop for Student Chapter Leaders, and 3) Younger Member Leadership Symposium.

Are you interested in joining your branch of section leadership? We are soliciting nominations for the 2024-2025 boards. We are also soliciting nominations for:

- Project of the Year (<\$10 Million and >\$10 million)
- Engineer of the Year
- Engineer Educator of the Year
- Fresh Face

You can find the forms for nominations here:

<https://sections.asce.org/utah-section/2024-nomination-forms> or send me (salbano@integral-corp.com) or LeeAnn Miller (l_miller@woodburycorp.com) an email.

We are rapidly approaching the upcoming student competitions:

- Intermountain Southwest ASCE Student Symposium (Utah State University, April 11-13, 2024, see flyer)
- ASCE Civil Engineering Student Championships (Brigham Young University, June 20-22, 2024).

We hope that you will take these opportunities to support our civil engineering students as a sponsor, judge, coordinator, or volunteer.



ISWS 2024
VOLUNTEERS NEEDED
APRIL 11-13, 2024



YOUR HELP IS NEEDED!

- JUDGES
- COORDINATORS
- VOLUNTEERS



FOR MORE INFO VISIT:
[HTTPS://STUDENTSYMPOSIUM.ASCE.ORG/INTERMOUNTAIN-SOUTHWEST/](https://studentsymposium.asce.org/intermountain-southwest/)



Central Utah Branch

Ben Gray (begray@genevarock.com)

In February we hosted Robert Miles from UDOT, he is the director of Roadside and Highway Safety with UDOT. Have you ever heard of UDOT's "Zero Fatalities" campaign? Yeah, he oversees all of that. We wanted to give a huge thank you to him and his team for all they do to keep our highways safe. The research and actions they are taking blew our group away, from the emergence of electric vehicles and how they are challenges for safety on our roads, to lidar scanning to ensure cyclists are safe going up our steep, windy canyon roads, UDOT is leading the way in highway safety, and don't plan on stopping anytime soon. We hope to host them again in the future! And if you didn't make it to this luncheon, come check out March's!

Upcoming Events

March Luncheon – David Cox, Mayer Brown Law Firm

A \$20 dollar lunch that could save you and your firms \$1000's, you won't want to miss this! Sounds like a scam huh? Well far from it, David Cox with Mayer Brown law firm is poised to present on contract negotiation and things you will want to make sure you have covered in the next contract you sign with a customer. Specifically geared for civil engineers, we are excited to have him. Make sure to sign up for this luncheon and invite another person on your team to come with!

March 14th, 12-1pm
730 N 1500 W, Orem, UT 84057

NORTHERN UTAH BRANCH UPDATE

We will be having a tour of 2nd Dam this month on February 15th at 11:30am. Meet at 2nd Dam. An email was sent with more details. Students and Professionals are invited.

Lance Houser will be presenting for our upcoming April Meeting. Watch for an email with more details.

Don't forget to sign up to support the USU Student Chapter for the 2024 Intermountain Southwest Student Symposium coming up this April.

Young Member Forum

Join us at The Quarters in Sugarhouse on February 21st at 7PM for an Arcade Social hosted by the Utah Section Young Member Forum! RSVP by February 19th to secure your spot. Don't miss the chance to win some ASCE swag!

RSVP Here:

<https://forms.gle/ropn5QyqUviCYvbx8>

We look forward to seeing you there!
Pedro Garcia Montesinos
President Utah Section Young Member Forum

JOIN THE ASCE YOUNGER
MEMBER FORUM FOR THE

ARCADE SOCIAL

JOIN YOUR FELLOW YOUNG
PROFESSIONALS FOR A FUN
NIGHT OF CLASSIC ARCADE
FUN AND SNACKS!
RSVP BELOW.

WED, FEB 21, 2024 | 7 PM |
QUARTERS ARCADE BAR |
SUGARHOUSE
([HTTPS://MAPS.APP.GOO.GL/
41EROEB38VFEGHIY7](https://maps.app.goo.gl/41EROEB38VFEGHIY7))



SCAN ME

Structural Engineering Institute Update
CONRAD GUYMON, P.E., S.E. (CONRADG@CKRENGINEERS.COM)

We have a few events coming up. Please check your calendars, interests, and register where possible. These events are a great opportunity to expand your vision of Structural Engineering.

New IMAX Film Release

ASCE will be premiering their new 45 minute IMAX film Cities of the Future at select museums and science centers during Engineers Week! This looks like a fantastic immersive experience. If anyone has some connections that could help bring this to Utah, please let me know.

SEICon24

SEI is looking forward to seeing you at SEICon24 at NASCC in San Antonio! Dates are March 20-24, 2024, which is a bit over one month away. Learn more at www.SEICon24.org. Registration & hotel accommodations are available at NASCC now.v

- Join us for the SEI Plenary, Annual Business Meeting & Awards Program on Thursday, March 21.
- Stop by the SEI/ASCE booth in the exhibit hall to connect and experience Amplify and Future World Vision.

There are some additional opportunities available for students and young professionals have many ways to engage with each other and the larger audience at SEICon24...

- Arrive early and sit in on a SEI Committee Meeting on Tuesday, March 19- schedule to be announced.
- Attend the SEI Meet the Leaders Program for Students and Young Professionals on Wednesday, March 20.

ASCE 2024 Convention

Save the date to your calendar for the ASCE 2024 Convention in Tampa, Oct. 6-9.

Join us at the ASCE 2024 Convention for three-and-a-half days of multi-disciplinary technical sessions covering the most important issues facing civil engineering today!

Here are a few key reasons you need to attend the ASCE 2024 Convention:

- Learn how to prepare yourself to build and protect infrastructure in the United States and across the globe.
- Participate in unprecedented learning opportunities, including innovative and cross-cutting concurrent sessions.
- Get the latest on AI, climate change, workforce, and more.
- Network with your peers and meet new people.
- Attend sessions that encourage civil engineering leaders to engineer, innovate, and lead.
- Earn Professional Development Hours (PDHs) to maintain your professional licensure while gaining relevant focused knowledge.
- Experience the OPAL Awards Gala.
- Explore the dazzling waterfront Tampa Riverwalk.



Technical Article

As you may have heard, APWA Utah chapter has made some changes to their Plant Mix Bituminous Paving and Bituminous Concrete specifications, 32 12 16 and 32 12 05 respectively. I know what you're thinking... what a rush! Those who are excited about this update probably already know about this change, and have dug in deep, for those that haven't here is a very brief recap of what this change is about and something to consider.

APWA has essentially done a full swing conversion of their previous asphalt mix design and placement methods of Marshall and Superpave over to only the Superpave method. As a recap to your materials classes back in college, for those who haven't dealt much with asphalt since, there are two primary design methods we use in Utah; Marshall and Superpave. Major differences between Marshall and Superpave is that Superpave includes more consensus-based aggregate, more realistic compaction testing method that better simulates actual loading of traffic, as well as a new asphalt binder grading system. Up until till this change a majority, if not all, municipalities have followed the Marshall method design parameters. And until now, we have primarily seen primarily UDOT and Federal paving projects stick to the Superpave methods.

Since the release, municipalities throughout Utah have been updating their city specifications to reflect this new APWA update and have started paving roads with these Superpave mixes. The Superpave methods, in large will improve the life span of their pavements, reduce maintenance costs, etc. However, there should be somethings to consider or at minimum be aware of as we move forward, here is an example. Say you wanted to mill the existing surface in an older neighborhood in your city, you may want to do an analysis of what is beneath your asphalt before you make your final decision of a mill and pave as your solution. Some of the older neighborhoods, in our cities have very little information, if any, on how their roads were constructed, what materials were used, and were most likely not inspected when they were built. Because the new Superpave methods require such a larger amount of compaction effort, you may find in areas where little to no effort was made to establish a good solid road base layer could result in the emergence of many soft spots during the paving process of your mill and fill paving project. This may require extra funds and resources to then stop and address those soft spots. The larger rollers and vibratory effort to meet the Superpave compaction is no joke and should be considered in your analysis for how you take care of you next road project. Hopefully, this article can spark a discussion regarding your next road improvement project. Or at least inform you what is going on in the world of asphalt around you. If anyone has their own experience using the Superpave mix design method in their city, let me know how it went. I think overall this change will be a great improvement to our roads at large! Below is the link to the specifications addressed above.

<https://utah.apwa.org/education/utah-standard-plans-specifications/>