

SEI HOUSTON MONTHLY NEWSLETTER

NEWS THIS MONTH

Technical Session on
May 31, 2022

UPCOMING EVENTS

Overview of Changes in
ASCE 7-22

2022 SEI HOUSTON SCHOLARSHIP WINNER

Tony Duenas



Pictures of SJCC Anderson-Ball Classroom Under Construction



Erin Kueht, PE, LEED
AP BD+C



Justin Lawson, PE

Design with Mass Timber: San Jacinto College Central Classroom Building

On May 31, 2022, Erin and Justin presented a SEI Technical Session through Microsoft Teams.

Due to the volatile steel market, the client opted to utilize mass timber for the construction of the structure. The audience was surprised to know that the original piers were re-integrated into the proposed foundation. The use of such reduced the overall cost of the structure and materials required to complete the building. The designers used cross laminated timber and concrete to construct the upper floors of the building. Erin explained how the mass timber was chosen and the background of the project. A special brace connection had to be designed to connect the steel bracing, the wood column, and the wood beam. In order to achieve the structure's innovative design, careful work sequencing and detailing was required.

The audience was engaged throughout the presentation by Erin and Justin's in-depth knowledge and message delivery. They utilized many high-quality photos and details to convey to the audience the intricacies of the building. The results of their hard work and dedication yielded an aesthetically pleasing product that both the client and the general public can enjoy for many years to come.

UPCOMING EVENTS

"Overview of Changes in ASCE 7-22" by Greg Soules, June 28 2022.



J. G. (Greg) Soules Ph.D., P.E.,
S.E., P.Eng.

The presentation is an overview of many of the major changes made in the 2022 edition of ASCE 7. While changes in each chapter are discussed, most of the presentation will concentrate on the major changes in the seismic and wind chapters, including the new Chapter 32 - Tornado Loads.

Please click on the following link for registration*.

<https://ascehouston.org/meetinginfo.php?id=680&ts=1654556674>

*This even is a virtual meeting. A link to access the meeting will be included at the bottom of your payment receipt email upon registration.

2022 SEI HOUSTON SCHOLARSHIP WINNER

Tony Duenas is a senior civil engineering student in University of Texas at Tyler. He has a perfect 4.0 GPA with honors including Phi Theta Kappa and the National Society of Leadership and Success. He has been working in Lowes, Walmart, and Wharton County Junior College during his school years.



Tony Duenas

WHAT DO YOU DO DURING YOUR FREE TIME?

During my free time, I like to maximize my time by being productive—such as reading self-motivating books and learning new stuff by watching YouTube videos. Life is meaningless if you don't maximize your time. I feel like in order to help others and succeed in life, one has to have the ability to learn as much as possible because that's a way to understand problems. That's what I intend to do every time I wake up, look for opportunities that can help me as a better person mentally, physically, and emotionally. With life being hard, I always thank the challenges that I encounter no matter what. I know for a fact that there's light at the end of the tunnel that I will see and make it into reality. With this mind, this emphasizes that I am willing to work hard and push myself to my limit in anything I do. As a student that is first generation, I want to make sure my family looks up to me so I can set an example of how ASCE and college can open doors if done correctly. Always having a positive mindset will definitely help out. With the books that I've read in the past, I've learnt how to talk to people and communicate—which is essential to any engineering field.