



THE STRUCTURAL ENGINEER

Repair and Rehabilitation of Barbours Cut Container Terminal



Casey Jones, PE

Barbours Cut Container Terminal was constructed in the early 1980s and is a container-handling facility owned and operated by the Port of Houston. A modernization program is underway to increase the service life, efficiency, and capacity of the terminal. Wiss, Janney, Elstner Associates, Inc. (WJE), has been involved in the repair and rehabilitation of Wharf 3 at Barbours Cut Container Terminal. This presentation will discuss the two primary aspects of this project. First, the challenges associated with extending the service life of the existing reinforced concrete structure will be outlined, including distress mechanisms, repair strategies, and methods of cathodic protection. Second, the methodology behind the strengthening and structural design required for the new gantry cranes will be discussed, including strut-and-tie modeling of reinforced concrete elements.



Daniel Pearson, PE

Casey Jones and Daniel Pearson are structural engineering consultants at Wiss, Janney, Elstner Associates, Inc. (WJE), an interdisciplinary engineering, architecture, and materials science firm specializing in the evaluation, design, and rehabilitation of new and existing construction. Casey Jones received his B.S. degree in civil engineering from Purdue University and his M.S. degree in civil engineering (structural emphasis) from Texas A&M University. His project experience includes investigations and repair design of distressed concrete structures, corroded steel structures, and foundation settlement problems. Casey's experience also includes both destructive and nondestructive field testing of structural systems. Daniel Pearson received his B.S. and M.E. degree in civil engineering (structural emphasis) from Texas A&M University. Daniel has been involved in damage investigations, structural analysis, finite element analysis, and structural assessments while at WJE. Daniel is an active member of the Structural Engineers Association of Texas (SEAoT) and Casey is an active member of both SEAoT and NACE International.

MEETING INFO

WHEN:	WHERE:	COST:	RSVP:	UPCOMING MEETINGS
January 17, 2019 6:00 pm Social 6:30 pm Dinner 7:00 pm Program	Hess Engineering and Scientific Society 5430 Westheimer Houston, TX 77056	Members: \$25.00 Non-members: \$35.00 Student members & Non dinner guests \$10.00	Click Here to register online. The deadline is 12:00pm, the	February 21, 2019 TBD March 21, 2019 TBD

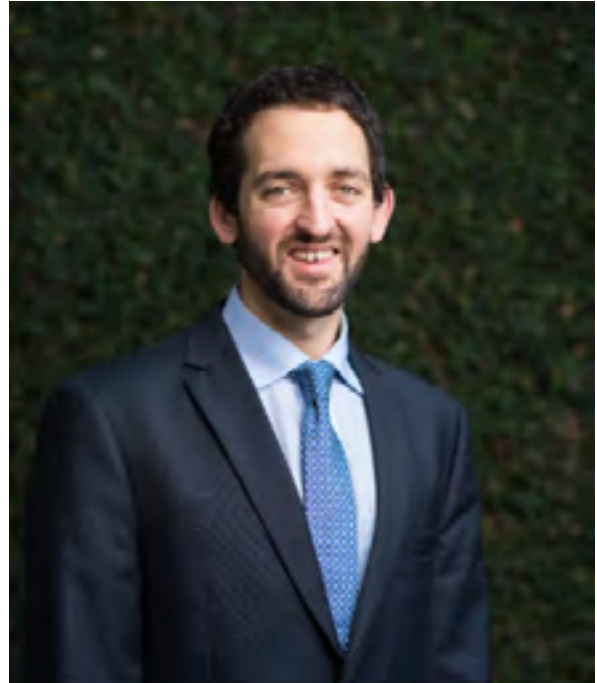
[CLICK HERE](#) TO REGISTER FOR THIS MEETING

President's Corner

Dan Barbuto, PE

Hello everyone, Happy New Year, I hope you had a relaxing holiday and a great start to 2019. Welcome to the first newsletter of 2019. It seems like only yesterday we were closing out our November meeting.

I'm excited to announce that we have new board members and SEAOt volunteers for the Houston/Gulf Coast Chapter. I wanted to take a moment and introduce our new team: Emily McCarthy with Simpson Gumpertz & Heger (SGH) is transitioning to the Vice President role, Joshua White with Weiss, Janny, Elster (WJE) has taken on the Secretary role and Daniel Pearson, with WJE, has taken on the Treasurer role. I, Dan Barbuto, with Walter P Moore, will continue to serve as President. Jennifer Martin-Logan has volunteered to take on the responsibility of the website and newsletter, while Jacob Borgerson, with WJE, has volunteered to lead community and membership outreach. Special thanks to Rick Miles, with Terracon, who continues to serve as Past President and helps guide our team and Johnathan Warshaw, with Walker Restoration, who will serve as past treasurer.



Dan Barbuto
SEAOt Houston Gulf Coast Chapter President

I want to thank the board and volunteers for their efforts. I appreciate each of them taking their time and helping to serve SEAOt.

I hope that we can continue to build upon our 2018 momentum. I am excited to continue to serve. find new ways to engage membership, and grow our chapter involvement. Individuals that are looking to get involved are always encouraged to reach out to the Board. Together we can accomplish great things in 2019.

Looking forward to seeing you at the monthly meeting!

Dan Barbuto, P.E.



Wiss, Janney, Elstner Associates, Inc.

Secretary's Corner

Emily McCarthy, PhD, PE

Welcome back Houston SEAOt and may 2019 be a year of creative projects, business without being overworked and camaraderie among your colleagues. I hope you all will have the opportunity to join us throughout the year for our monthly seminars and networking. This year I am transitioning into the Vice President role and am handing the reigns of Secretary to Joshua White with Wiss, Janney, Elstner (WJE). Please congratulate him when you see him at our next meeting.

Our board this year is working to bring you great speakers, excellent networking opportunities, outreach to the community and, as ever, spread the SEAOt mission to support the structural engineering community and enhance public awareness of our great services.

Looking back, our final 2018 meeting had Mr. Morales from AISC sharing about architecturally exposed structural steel. For those of us frequently working with architects and contractors, his information on different grades of steel aesthetics, awareness of the eye's distance from a member, cost of enhancing steel's appearance and the quality control necessary to achieve a desired effect highlighted how consideration of steel can go far beyond defining a steel grade for strength and serviceability.

Looking forward, this month WJE will present on the Repair and Rehabilitation of the Barbours Cut Container Terminal here in Houston.

In the upcoming months we will have speakers present on blast design of glazing, building enclosure design and investigation, and oil and gas related design and investigation to name a few. Come out and join us at the HESS Club each month to network with peers, earn PDHs and learn about all the great things Houston structural engineers are working on.



Emily McCarthy
SEAOt Houston Gulf Coast Chapter Secretary

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