

January 2021 ASCE Midlands Branch Newsletter



When

Wednesday, January 20th, 2020
Presentation: 12:00 PM to 1:00 PM

Contact

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[Register Here!* - WebEx](#)

**Click "Register" on the left-hand side of the page next to "Event Status" - You will be prompted with a form to fill out. Once you submit, you should receive an email saying your registration was approved and an invite to add to your calendar.*

Virtual Presentation

Speaker:

Nathan Ward

AECOM

Managing and Maintaining Your Elevated Water Storage Assets:

New Tank Design and Construction and Existing Tank Condition Assessment and Rehabilitation

Speaker Bio

Nathan Ward, P.E.

Nathan Ward, PE, is an AECOM Project Manager with over 21 years of experience in engineering and 17 years of experience working on tank projects for municipalities throughout the southeast (from Georgia to Virginia). His elevated tank experience includes planning, design, and oversight of construction administration, and the completion of tank inspections and condition assessments. His tank assessment experience includes the evaluation of coating systems and the development of recommendations for repair and rehabilitation. Nathan is a Registered PE in South Carolina (No. 23915) and a NACE Inspector (CIP Level I, Cert No. 48462).

Abstract

New Tank Design and Construction

This presentation will focus on the most important details that need to be evaluated and included in the design and construction of a new elevated water tank, including:

- Pros and cons of the four major styles of tanks and the initial and long-term cost of each
- Important factors to specify for the construction of the tank
- How to approach the detailed design of the tank
- Whether the tank column or site can have an alternative use
- Key site design elements (Overflow/drain location, stormwater, transmission main connections, control valves, etc.)
- Hydraulic modeling
- Tank mixing considerations
- Coating systems

One of the more important elements of the tank design and construction is the **coating system** that is selected to protect the interior and exterior steel. This applies to both new and existing tanks. This presentation will also cover:

- Why surface preparation is so important
- Pros and cons of the different coating systems for tanks
- The new NSF 600 requirements and how they will affect interior coating systems

Existing Tank Condition Assessment & Rehabilitation

Proper and regular assessment of the condition of tanks is important for many reasons, including the proper selection of coatings, evaluation if the tank has lead paint on it, evaluating items that need to be repaired or upgraded (vents, screens, overflows, welds, ladders, etc.), communication equipment, etc. Proper documentation of the condition and repairs needed for a tank is critical to preparing the specifications for the rehabilitation of the tank.



President's Pen

Hi there Midlands Branch! I hope everyone had a wonderful Holiday and New Years! It is so hard to believe it is 2021!

Moving forward, we will still be hosting virtual meetings until further notice in place of our regularly scheduled lunch and learns. Please join us on the 20th for an awesome presentation from Nathan Ward with AECOM on Managing and Maintaining Your Elevated Water Storage Assets! Also keep checking the website here ([ASCE Midlands Branch Website](#)) moving forward to stay up to date on all things ASCE Midlands Branch and to check any upcoming events we have! I hope everyone is still staying safe and healthy!

I hope you all can join us on January 20th! We look forward to “seeing” you there!



ASCE Younger Member Events

Stay tuned!

ASCE Midlands Branch Board Members



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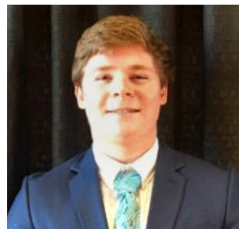
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