

Environmental and Water Resources Engineering, and Center for Water and the Environment Seminar Series Presents:



Thursday, January 22nd 2026, 3:30-4:30 pm, ECJ 1.324

Zoom Link: <https://utexas.zoom.us/j/84820581097>

CDM Smith: Design. Build. Deliver. Georgetown's South Lake Journey



This presentation highlights the design, construction, and commissioning of a 44-MGD greenfield water treatment plant in Central Texas, delivered on schedule to address the region's rapid population growth. It outlines the execution strategy, showcases key innovations and operational approaches, and shares lessons learned to guide future utility planning and infrastructure. The presentation will also delve into the technical design of the

treatment processes, the challenges encountered during permitting and land acquisition, and the innovative solutions implemented to ensure operational success. Attendees will gain insights into best practices for construction phase coordination, commissioning, operator training, and regulatory compliance. In addition, the presentation will highlight strategies for managing large-scale infrastructure projects in dynamic urban environments. The Central Texas WTP exemplifies how thoughtful planning, engineering innovation, and teamwork can deliver sustainable water solutions that meet both current and future community needs.

Ana Marie Karamalegos, PE, BCEE, PMP and James Gallagher, PE



Ana Marie Karamalegos is a Principal and Regional Team Leader at CDM Smith with two decades of experience in environmental engineering. She holds a Master's in Environmental and Water Resources Engineering from University of Texas. Ana Marie has led numerous water infrastructure projects, specializing in water and wastewater treatment plant design and conveyance projects. Her

collaborative approach and technical expertise have contributed to the successful delivery of complex municipal water systems.

James Gallagher is a Registered Professional Engineer in Texas and holds a Bachelor of Civil Engineering from the University of Dayton.