

The Department of Civil and Environmental Engineering at the University of Houston presents...

CIVE 6111 Graduate Seminar

Creating a Road Map to Adoption of High Strength Steel in Masonry-Phase 1



Omar Khalid, Masters Student

Department of Civil & Environmental Engineering
University of Houston, Houston, TX

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2:45pm-3:45pm

Classroom Business Building (CBB) - Room 122

Zoom: <https://uh-edu-cougarnet.zoom.us/j/93580420322>

Abstract

With the introduction of High Strength Steel (HSS) in reinforced masonry structures, the intent is to reduce congestion of reinforcement, minimize the associated carbon footprint, broaden the design capabilities, and increase the competitiveness in the market share. However, the current design code of structural masonry, namely TMS 402-16, does not permit the use of HSS. The present research study at UH is to conduct a series of numerical and experimental studies that can create a road map to the code adoption of HSS in the above-referenced design code.

Bio

Omar Nazar Khalid is a Master's student in the Department of Civil and Environmental Engineering working under supervision of Dr. Dimitrios Kalliontzis. He completed his Bachelor's in Computer Science from Bagdad University-Iraq (2003), Business administration from Al-Mamoun University college-Iraq (2012), and civil engineering from Farabi University College-Iraq (2018). Later, he moved to USA and joined University of Houston as a Master's student in 2021. Recently, he was rewarded a scholarship from (The Paul and Helen Lenchuck Scholarship program), administrated by the National Concrete Masonry Association (NCMA). His research is focused on investigation of the behavior of high strength reinforcement in masonry structures.



Muhammad Waleed Khan

Department of Civil & Environmental Engineering
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Bio

Muhammad Waleed Khan is a Doctoral Student in the Department of Civil and Environmental Engineering, working under supervision of Dr. Dimitrios Kalliontzis. He completed his bachelor's in Civil Engineering from National University of Science and Technology-Pakistan (2016). He went on to complete his master's degree from the same institution in the field of Structural Engineering in 2019. He was serving as Lecturer at National University of Technology, Islamabad, Pakistan before receiving a scholarship under US Pakistan Knowledge Corridor for his doctoral studies at University of Houston, USA. His research is focused on the behavioral study of high strength steel usage in concrete masonry structures.