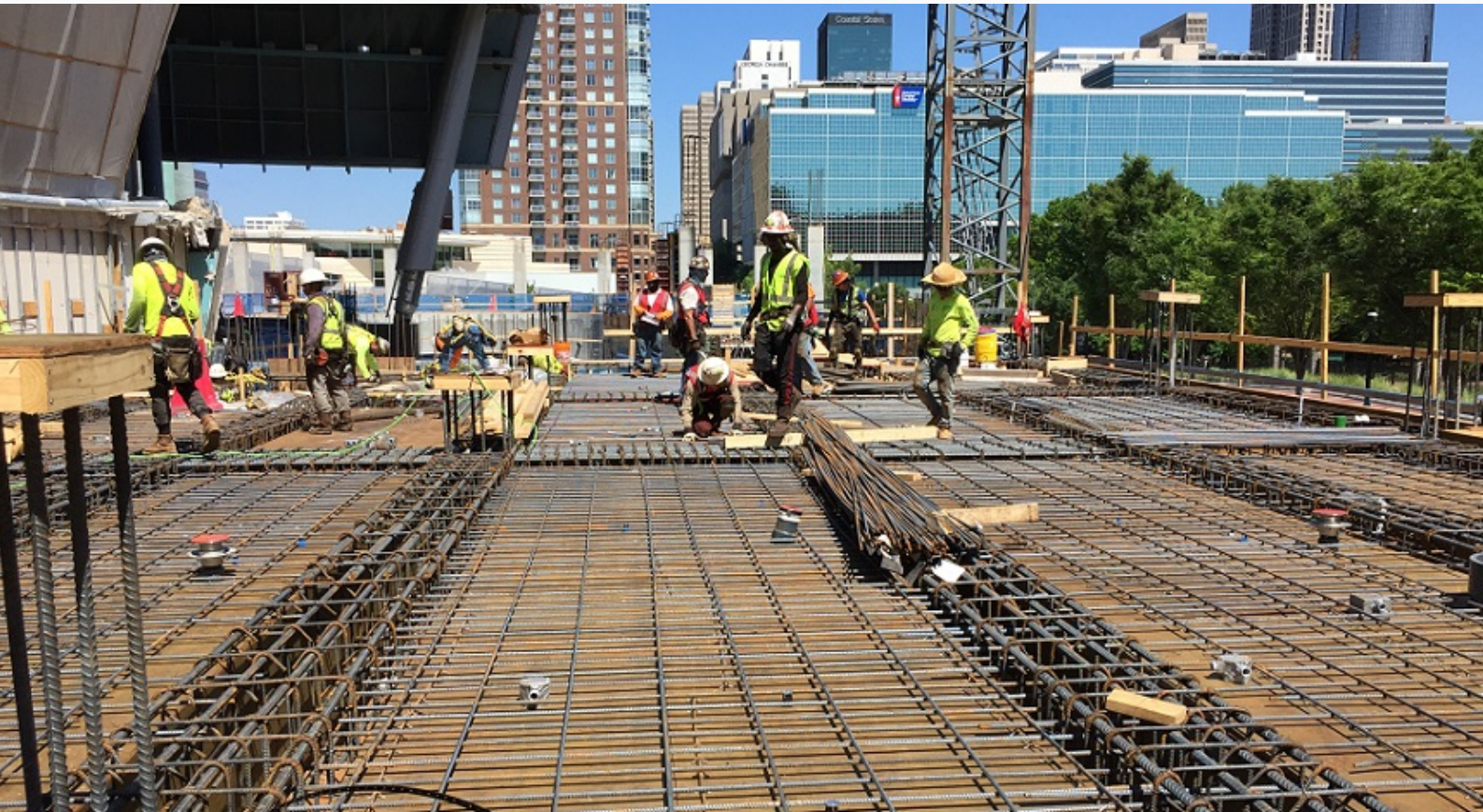


Organised by:
Material Engineering Technical Division (MaTD)



Webinar Talk on “Charting New Frontiers: Glass Fiber Reinforced Polymer (GFRP) in Marine, Biofuel, and Oil & Gas Industries”

24th February 2024, Saturday
10.00am - 12.00pm
Zoom Platform

Speaker:

Ir. Ts. Nur Naquiddin Mdd Nordin,
M.IEM, P.Eng, P.Tech, PMP



REGISTRATION FEES

IEM Students: FOC

IEM Members: RM15

Non-IEM Members: RM70

Website: www.myiem.org.my

CPD:2
BEM APPROVED CPD HOURS:
IEM24/HQ/041/T (w)

SYNOPSIS

In this insightful webinar, we explore the transformative role of Non-metallic materials - Glass Fiber Reinforced Polymer (GFRP) in traditional metal-centric industries like marine, biofuel, and oil & gas. We start with an introduction to GFRP, highlighting its advantages over metallic structures in engineering applications, such as superior strength, durability, and corrosion resistance. The discussion then shifts to the innovative manufacturing of Thermoset Composite Piping, showcasing its growing applications in the oil and gas sector. This segment is enriched with practical insights, illustrating GFRP's capabilities and limitations. A key focus will be on GFRP's role in decarbonization efforts within these industries, aligning with global sustainability goals. This webinar is not just a technical overview but an engaging platform for professionals to exchange knowledge and envision GFRP's potential in modern engineering, highlighting its impact in enhancing energy efficiency and reducing carbon emissions.

SPEAKER

Naqiuddin Nordin received the B.Eng in Petroleum Engineering from the University of New South Wales (UNSW), Australia in 2018, and M.Phil in Mechanical Engineering from Universiti Teknologi Malaysia (UTM) in 2022. Currently, he is pursuing a Doctor of Philosophy in Mechanical Engineering at the University of Malaya (UM) while working full time in the Oil & Gas Industry.

In his professional journey, Naqiuddin has amassed over 5 years of experience in project management, facility operation, and maintenance in the oil and gas sector. His professional journey includes significant roles in product research and development, particularly focusing on non-metallic materials in greenfield and brownfield oil and gas development.

Presently, he is pioneering the application of Glass Fiber Reinforced Polymer (GFRP) solutions in the biofuel industry through his doctoral research. His academic excellence was recognized with the UTM Best Postgraduate Student Award in 2022, and he was a finalist for the SPE Outstanding Young Professional Award in 2021. Naqiuddin currently holds a vital position as Assistant Manager at Petron Fuel International, where he continues to drive innovation and efficiency. He also enriches the academic community by serving as an external co-supervisor and industrial speaker at Universiti Kuala Lumpur (UniKL) Pasir Gudang.

Naqiuddin is a registered Professional Engineer with the Board of Engineers Malaysia (BEM), a Corporate Member of the Institution of Engineers Malaysia (IEM), a Professional Technologist with the Malaysia Board of Technologists, and a certified Project Management Professional (PMP) from the Project Management Institute.