

Webinar

Talk on What's up in Oil & Gas Industrial Research #2 : Mercury Removal

CPD Hours : 2

CPD Ref No : IEM22/HQ/156/T(w)

Oil, Gas and Mining Technical Division

SYNOPSIS

When the word "research" is mentioned, it is often a misconception that research happens inside universities and researchers will work in the campus, isolated from the industrial world. It is not the case since research also happens in the industry, and most often than not, shaping the demand of technology advancement.

Oil, Gas, Mining Technical Division (OGMTD) has lined-up a series of research-focused topics to explore the current trend in Oil & Gas research, to bring awareness of research work in the industry, which could shape the current and future engineering applications or solutions.

This is the 2nd series:

a) Mercury Removal in Oil and Gas.

Mercury, in all forms are toxic and found to occur naturally in trace amounts in hydrocarbon streams. The amounts of mercury in hydrocarbon can vary depending on the geographical location with Asia Pacific region having the highest mercury concentration. Mercury is unwanted in oil and gas industry due to its detrimental effect. This paper will focus on mercury presence in hydrocarbon streams, its behaviour and impact to the oil and gas industry and the removal technologies and strategies to tackle mercury in hydrocarbon stream especially natural gas stream. The challenges in mercury removal technology inclusive of technology scale-up will also be discussed.

SPEAKER

Dr. Mohammad Syamzari Bin Rafeen

Dr. Mohammad Syamzari Bin Rafeen, is a Principal Scientist (R&D Process Technology), Group Research and Technology (GR&T), PETRONAS. He has 19 years of experience in the oil and gas industry, a Chemical Engineering practitioner contributed as subject matter expert in the area of process technology specifically in separation and purification, chemical reaction engineering and process scale-up. He completed his BEng (Hons) in 2002 and MSc (Hons) in 2009 in Chemical Engineering at UMIST, Manchester and UTP, Tronoh respectively. He completed his PhD in Chemistry in 2017 from Queen's University Belfast focusing mercury removal from natural gas. He has been actively involved in mercury research and technology development in PETRONAS and one of the in-house trainer for mercury management in oil and gas industry in collaboration with Universiti Teknologi PETRONAS (UTP). He has published 10 papers in reputable journal and conference as main and co-author, 3 patents publication and part of the team for 5 awards from iChemE and RSC for mercury projects. He is also an Associate Member of iChemE.



Saturday | 11 June 2022 | 9AM – 11AM

Registration Fee:

Student Member: Free | IEM Member: RM15 | Non-Member: RM70

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