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WEBINAR TALK ON
EMULSION

ORGANISED BY:
ENGINEERING EDUCATION TECHNICAL DIVISION, IEM

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SPEAKER:

Ir. Ts. Dr. Harvin Kaur

MODERATOR:

Ir. Assoc. Prof. Dr. Siva Kumar Sivanesan

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3.00PM

REGISTRATION FEE

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SYNOPSIS

Due to the increasing hydrocarbon production from conventional and unconventional reservoirs, there are a lot more critical operational challenges that the oil and gas industry face such as fluid flow assurance issues during production and transportation of pipelines. These flow assurance and operational issues would have an adverse effect on the production operation strategies. Flow assurance issues such as emulsions are one of the important areas being studied today due to the high cost of deep water exploration and production. The focus of flow assurance starts from the reservoir till the point of sale.Emulsions are the mixtures of two or more types of liquids where, one is such as droplets, of tiny or even ultra microscopic size, which are distributed throughout each other. These are usually formed from the component of liquids either in natural form or, more often, using mechanisms such as agitation, which is provided that these fluids mixed have no kind of mutual solubility.Emulsions are said to be stabilized by some of the agent's forming films at the surface of droplets or those which impart to them a kind of mechanical stability.

SPEAKER'S PROFILE

Ir.Ts. Dr. Harvin Kaur is a Senior Lecturer at the School of Engineering, Asia Pacific University of Technology& Innovation (APU). She graduated with BSc (Hons.) degree in Chemical Engineering, MSc in Mechanical Engineering and PhD in Mechanical Engineering (Flow Assurance) from Universiti Teknologi PETRONAS in 2012, 2014 and 2022, respectively. Her area of interest is in rheology, emulsion and flow assurance issues in the oil and gas industry.She is a Professional Engineer registered with the Board of Engineers, Malaysia. Prior to joining academia, she had practiced in the industry for 7 years