Webinar Talk on
What's up in Oil & Gas Industrial Research #1 : What's the Scientist world, and what is best practice for geological CO2 storage modelling?

CPD Hours : 2 **CPD Ref No : IEM22/HQ/071/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.

In the 1st series, two topics would be discussed and shared:

a) Scientists' World: Adoption of New Way of Working and Thinking.

Business as usual (BAU) in the era of volatility, uncertainty, complexity, and ambiguity (VUCA) is no longer an option! Pivoting to something new with technology advancement alongside with the energy transition and clean energy are very much needed. Therefore, adoption of new ways of working and thinking is a must to achieve the goals. This topic would provide perspective of the Chief Scientist, from the research group of PETRONAS on how scientist's world should react to this challenge.

b) Best Practice for Dynamic Modelling of Geological CO2 Storage

The storage of CO2 in geological formations such as depleted oil and gas reservoirs, un-minable coal seams, and deep saline aquifers is a promising technology to reduce the emissions of anthropogenic CO2 into the atmosphere. Geological CO2 sequestration involves not only complex geometry but also thermal, hydraulic, mechanical, and chemical processes. This topic will touch on some of the best practices in dynamic modelling of the storage of CO2 in geological formations.

SPEAKERS

Dr. Mohd Faizal Sedaralit, is a Chief Scientist (Reservoir Engineering), Group Research and Technology (GR&T), PETRONAS. He obtained BSc. Hons (2000) and MSc. Hons. (2013) in Petroleum Engineering (PE) from Universiti Teknologi Malaysia (UTM). Completed Doctor of Philosophy, PhD (2019) in Petroleum Engineering from Universiti Teknologi PETRONAS (UTP), specialization in modelling and enhanced oil recovery (EOR) and has awarded the first from PETRONAS receive PhD or first Malaysian graduated in the subject. He holds more than 50 technical sharing through technical paper and journal publications, eight Intellectual Property

Dr. Mohd Faizal Sedaralit

Dr. Nor Idah Kechut is a Principal Scientist at Group Research & Technology, PETRONAS. She received B. Eng. (Chemical Engineering) from University of Birmingham, UK, and PhD (Petroleum Engineering) degree from Heriot Watt University, Edinburgh, Scotland. She is currently one of the GR&T Scientist Technical Authority members for Reservoir Technology providing technical guidance, advice, and ensuring due diligence of relevant R&D and Delivery projects.

Dr. Nor Idah Kechut

Saturday I 26 March 2022 I 9AM – 11AM

Registration Fee:

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

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