

## FREE WEBINAR SERIES

# SPECTROSCOPY IN MATERIALS AND CONTAMINATED SOIL CHARACTERISATION

 **9 November 2022 (Wednesday)**

 **2.30-5.00 pm (Malaysia Time)**

 **Microsoft Teams**



<http://surl.li/dbisw>

## SPEAKERS

### UV-Vis-NIR Spectroscopy for materials characterisation

Materials interaction with light can reveal a great deal of information, which is why UV-Vis-NIR spectroscopy has become an important technique for characterising them. This reveals the optical properties of the sample, which is important for materials designed to interact with light, such as photocatalysts, photodetectors and solar cell materials. It can also reveal various other properties of the materials, such as their size, shape, composition and electrical properties, all of which can influence their absorption of light. Besides absorbing incoming light, some materials can reflect and scatter it, which also determines how much light reaches the detector. The effect of this reflection and scattering thus needs to be considered when calculating the absorption spectrum, which can be done with various accessories available for modern UV-Vis-NIR spectrophotometers.



**Ms Chow Mee Ling**  
Spectroscopy Product Specialist  
Agilent Technologies

### Disruptive Technology : *Rapid, Onsite Measurement for Oil Contamination in Soil*

Among the different types of environmental contamination, soil contaminated with petroleum hydrocarbons has emerged as one of the most common pollution issues. To facilitate risk management and expedite site remediation / clean-ups management, a rapid, accurate, on-site and cost-effective assessment for Total Petroleum Hydrocarbons (TPH) in soils is crucial.

Join us to learn how a portable, mid-infrared technology device can be utilized for rapid measurement of TPH in soil. Exciting applications include site assessment, emergency spill response, bioremediation monitoring and petroleum exploration.



**ChM Dr Chin Teen**  
General Manager  
ALS Technichem (M) Sdn Bhd

## MODERATOR



**ChM Dr Chong Fai Kait**  
Division of Physical &  
Theoretical Chemistry  
Institut Kimia Malaysia

**Register  
Now!**



<http://surl.li/dehqx>

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