

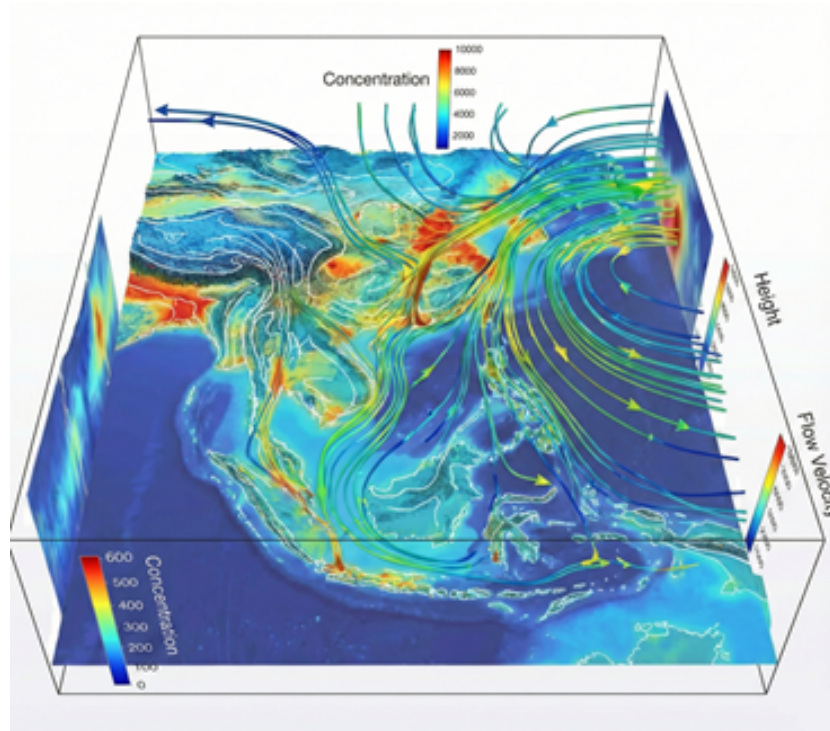
Webinar Talk on Haze early warning system in Malaysia

DATE : 09 Oct 2026 (Friday)
TIME : 9.00am - 11.00am
PLATFORM : Zoom
SPEAKER : Dr. Maggie Ooi Chel Gee

CPD HOURS : Applying CPD REF NO.: Applying

SYNOPSIS

The haze situation in Malaysia has worsen this year, with Air Pollutant Index (API) in Sarawak such as Kuching, Samarahan and Serian surpassing hazardous levels of 500. The onset of extreme El-Niño is also expected to bring drier weather condition, which likely to exacerbate both fires and regional air pollution.



This talk will discuss Malaysia's current haze early warning capacity, specifically focusing on the national operational haze forecasting system (MyCMAQ), developed by Department of Meteorology Malaysia this year. By integrating the Weather Research and Forecast (WRF) model with the Community Multi-scale model for Air Quality prediction (CMAQ), MyCMAQ can project air pollution concentration across the entire Malaysia up to five days in advance. This early warning system estimates for primary criteria pollutants, namely $PM_{2.5}$, PM_{10} , O_3 , CO , SO_2 , NO_2 .

The deployment of the MyCMAQ system represents a critical advancement in Malaysia's public health and disaster preparedness strategies. It provides the government authorities, healthcare providers and general public with crucial lead time for the preparedness, implement of emergency protocols and take proactive measure to reduce exposure to the hazardous air pollution.

Speaker Profile : Dr. Maggie Ooi Chel Gee



Dr. Maggie Chel Gee Ooi is a research fellow works as Senior Lecturer/Research Fellow at the Institute of Climate Change, Universiti Kebangsaan Malaysia (UKM). She has obtained her first-class MEng (Hons) in Chemical with Environmental Engineering and Ph.D in Civil Engineering with the University of Nottingham Malaysia. Maggie is a proficient weather and air quality modeller and her recent research work attempt to link ozone pollution with climate change. She is involved in multiple consultancy work with the government agencies and industry to assess climate hazard and air quality exposure.

One of the signature product is the MyCMAQ operational national air quality forecasting system developed for Department of Meteorology Malaysia to forecast the haze up to 5 days time. Maggie has also actively involved in urban climate, urban pollution studies as well as climate communications through the MyIKLIM one-stop climate change data portal.

Registration Fees

- *Student Member : FOC**
- *IEM Member : RM 15.00**
- *Non-Member : RM 70.00**