

# GREEN TECHNOLOGY USING SUPERCRITICAL CO<sub>2</sub>

There have been an increasing number of potential applications for supercritical fluids especially those which are CO<sub>2</sub> based. The most widely used application of supercritical fluid-CO<sub>2</sub> is in extraction. It is broadly recognized as the most efficient and least waste-producing extraction method available today as it is able to significantly reduce the use of the toxic, flammable or corrosive solvents currently being used in the extraction processes. Other applications for the green technology includes chemical reactions, polymer production and processing, semiconductor processing, powder production, environmental and soil remediation and dry cleaning. The supercritical fluid technology is slowly but surely becoming the method of choice as we look ahead to minimize the global environmental impact.



**Date : 13 February 2020**

**Time : 9am to 5pm**

**Venue : School of Science, Monash University Malaysia**



**Supercritical carbon dioxide extraction of bioactive compounds from natural resources**

Dr. Khaw Kooi Yeong

School of Pharmacy, Monash University Malaysia



**Scaling-up supercritical fluid extraction process for production of herbal plant enriched extracts**

Associate Professor Ir. Dr. Masturah Markom

Faculty of Engineering and Built Environment,  
Universiti Kebangsaan Malaysia



**Supercritical carbon dioxide and tailor-made powders**

Associate Professor Dr. Gun-Hean Chong

Faculty of Food Science and Technology,  
Universiti Putra Malaysia

**Co-organiser : Environmental and Green Chemistry Section,  
Institute of Chemistry Malaysia (IKM)**



# GREEN TECHNOLOGY USING SUPERCRITICAL CO<sub>2</sub>



Time	Agenda
9.00 am	Registration
9.30 am	Opening remarks
9.45 am	Dr. Khaw Kooi Yeong
10.30 am	Associate Professor Ir. Dr. Masturah Markom
11.15 am	Associate Professor Dr. Chong Gun Hean
12.00 pm	Lunch & networking
1.30 pm	Demo & hands-on (SFE, conventional extraction, LC-MS)
5.00 pm	Closing



Registration details	
Deadline	31 January 2020
Fee	RM100 (external); RM50 (Monash students) * not-refundable in the event of no show
How to register	Scan the QR code below



Email : [liew.shih.nee@monash.edu](mailto:liew.shih.nee@monash.edu) (Cindy)

Tel : +603-5514 6349

Address : Jalan Lagoon Selatan, Bandar Sunway, 47500 Subang Jaya, Selangor.