



Workshop on Gas Chromatography Techniques

(Code: CT)

24 & 25 September 2019

Organized by:

IKM (Perak Branch) Professional Training Centre



Trainer's Profile

Prof Dr Tan Guan Huat is Professor in Analytical Chemistry at the Department of Chemistry, University of Malaya. He has been a lecturer in Analytical Chemistry at the University of Malaya after graduating from Duke University in Durham, North Carolina and was promoted to Professor in 2003. He has supervised eight PhD and six MSc students and many thesis projects on environmental analysis of organic chemical pollutants in Malaysian waterways and pesticides in fruits and vegetables by using techniques such as GC, GC-MS, HPLC and LC-MS. He is currently supervising two PhD and one MSc students for their theses.

His current research interests focus on the environmental pollution problems in Malaysian waterways as a result of industrialisation and increasing agricultural production in this country. He is also currently doing studies on developing microextraction techniques for analysis of pesticide residues in food matrices such fruits and vegetables coupled to chromatographic techniques.

In addition to his extensive research contribution, Prof Tan has taught many courses on GC, HPLC, GCMS, LCMS and Food Analysis during his career at UM.

Workshop Programme

- Basic theory and principles of GC and HPLC
- Instrumentation
- Various types of detectors
- Quantitative technique
- Trouble shooting
- Basic care and maintenance of chromatography instruments
- Examples of applications

Registration

- ✓ **Closing date: 6 September 2019**
- ✓ **Registration Fee (inclusive of refreshments, lunch & workshop materials):**
 - **IKM Members: RM 650.00**
 - **Non IKM Members: RM 850.00**

Who should attend

- ✓ Analytical chemists, Laboratory Supervisors and Technologists, Researchers and people who continually seek to enhance knowledge and understanding in gas and liquid chromatography techniques.

❑ Terms & Conditions

The organizer reserves the right to make changes on the programme, cancel or reschedule the programme due to unforeseen circumstances. All efforts will be made to inform registered participants of such changes. The organizer will not be responsible for any damages or expenses suffered by the participants as a result of alternative arrangements made.

The **workshop registration fee** must be paid to “**Institut Kimia Malaysia Perak Branch**”, **Public Bank Account No: 3096895915**. No refund of registration fee for cancellation of registration after the closing date. However, a registered participant can be replaced with another person at no additional cost.

❑ Workshop Venue

**Tower Regency Hotel And Apartments,
6, Jalan Dato Seri Ahmad Said, Greentown, 30450 Ipoh, Perak**

For hotel room reservation, please contact Mr Meor Suhaniz at:

Email: meor@towerregency.com.my; Mobile number: 019-6002078



❑ Kindly email the registration form & payment slip to:

Assoc Prof Dr Chong Fai Kait

Email: chongfk10@gmail.com

Mobile number: 018-2104182

❑ Registration Form (Code: CT)

Category

Participants' Name *(Include IKM membership Number)*

IKM Member

Non-IKM Member

1.....

2.....

3.....

4.....

5.....

Company Name & Address

Total Registration Fees: RM.....

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Telephone Number..... Email.....

**Institut Kimia Malaysia, Perak Branch
Workshop on Chromatography Techniques
24 & 25 September 2019**

Trainer: Prof Dr Tan Guan Huat

| Time | Programme (Day 1) |
|---------------------|--|
| 8.15 am – 9.00 am | Registration (Tower Regency Hotel and Apartments, Ipoh) |
| 9.00 am – 10.30 am | GC Overview, general principles |
| 10.30 am – 10.45 am | Tea break |
| 10.45 am– 12.45 pm | Stationary phases, column selection, van Deemter equation |
| 12.45pm – 2.00 pm | Lunch |
| 2.00 pm – 4.30 pm | Van Deemter Plot, Resolution, R_s , temperature programming, Instrumentation, detectors, injectors |
| 4.30 pm – 5.00 pm | Q&A session |
| 5.00 pm | Tea break (End of Day 1) |

| Time | Programme (Day 2) |
|---------------------|---|
| 8.30 am– 10.30 am | HPLC overview, column type, role of particle size |
| 10.30 am – 10.45 am | Tea break |
| 10.45 am– 12.45 pm | Solvents/mobile phases in HPLC |
| 12.45 pm – 2.00 pm | Lunch |
| 2.00 pm – 3.00 pm | Detectors in HPLC |
| 3.00 pm – 3.30 pm | Quantitative Analysis in GC, HPLC |
| 3.30 pm – 4.30 pm | Sample preparation Trouble-shooting |
| 4.30 pm – 5.00 pm | Course evaluation |
| 5.00 pm | Certificate Presentation & Tea break (End of Day 2) |