



# Scanning Electron Microscope (SEM) Workshop 'Do you know your sample?'

**03 May 2018**

**Bilik Mesyuarat Bangunan Akademik,  
Fakulti Kejuruteraan dan Alam Bina, (FKAB),  
UKM Bangi, Selangor**

Registration URL: [goo.gl/ef48gb](http://goo.gl/ef48gb)

## **Speaker:**

**Prof. Madya. Dr. Hing Hiang Lian**  
Lecturer, Faculty of Health Science, UKM

**Dr. John Au Yoong**  
Application Specialist, Carl Zeiss Sdn.Bhd

**Dr. Rozan Yunus**  
Research Fellow, SELFUEL UKM

For 40  
participant  
only. Hurry,  
seats are  
limited !!!

## INTRODUCTION

Scanning Electron Microscope (SEM) is a very important material characterization tool for research. Characterization of materials allows researchers to better identify and knowing samples produced by their respective research. SEM is a type of electron microscope that produces images of a sample by scanning the surface with a focused beam of electrons. The electrons interact with atoms in the sample, producing various signals that contain information about the sample's surface topography and composition.

## OBJECTIVE

This workshop aims to expose graduate students, postdoctoral and researchers on theory, principal, the latest technology of electron microscopy and basic on handling of Scanning Electron Microscope (Carl Zeiss VP-SEM EVO MA 10) instrument. Hands-on training will be provided to limited participants during lab session.

## REGISTRATION

<b>FEES (RM) /pax</b>	<b>UKM</b>	<b>50</b>
	<b>Grouping ( &gt; 3 participants)</b>	<b>40</b>
	<b>Non-UKM</b>	<b>60</b>
	<b>Grouping ( &gt; 3 participants)</b>	<b>50</b>

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Payment can be made via tax invoice or direct transfer to UNIVERSITI KEBANGSAAN MALAYSIA (CIMB BANK ACC: 8002234307)

Please contact Mr. Muhammad Taufik Bin Mohd Hafzi at 03-8921 6046 or [taufikhafzi@ukm.edu.my](mailto:taufikhafzi@ukm.edu.my) for inquiry on payment for the workshop.

## PROGRAM

<b>08.30 - 09.15</b>	<b>Registration</b>
<b>09.15 - 10.30</b>	<b>Dr. John Au Yoong</b> Theory, basics and introduction to SEM.
<b>10.30 - 11.30</b>	<b>Prof. Madya Dr. Hing Hiang Lian</b> Sample preparation: How to prepare your sample for SEM analysis.
<b>11.30 - 11.45</b>	<b>Tea break</b>
<b>11.45 - 12.45</b>	<b>Dr. Rozan Yunus</b> SEM characterization for carbon base materials.
<b>12.45 - 14.00</b>	<b>Lunch</b>
<b>14.15 - 15.00</b>	Lab session 1 (max 12 participants)
<b>15.15 - 16.00</b>	Lab session 2 (max 12 participants)

Limited to 24 participant only for lab session!!!



### Organizer:

Jawatankuasa Makmal dan Siswazah, Institut Sel Fuel, UKM

### For any inquiry:

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### Jointly Organized By

