

WORKSHOP ON “HIGH RESOLUTION LOW KV TRANSMISSION ELECTRON MICROSCOPY” (Hitachi HT7700 “Exalens” TEM)

In almost all fields of modern science and technology the demands on high resolution imaging on delicate nanomaterials are becoming ever more challenging. The answer to these challenges is a low voltage high resolution 120kV Transmission Electron Microscope with the new HR objective lens that minimizes spherical aberration coefficient and Dual Objective lens for both High Contrast/High Resolution imaging

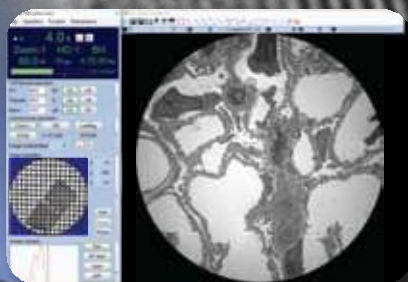
The main topics covered in these course will

- 1) Basic Theory of TEM
- 2) TEM design and its imaging capabilities
- 3) Analytical attachments
- 4) Demonstration of the HR 120kV TEM and sample discussions

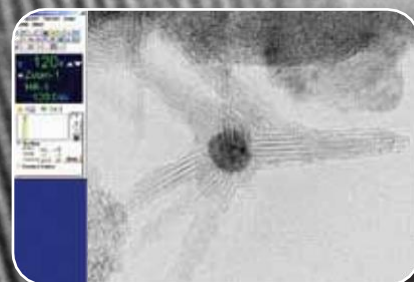
8th to 9th August 2017



No dark room required

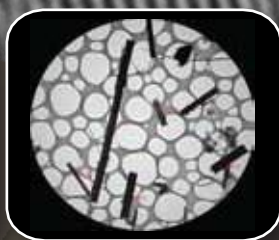
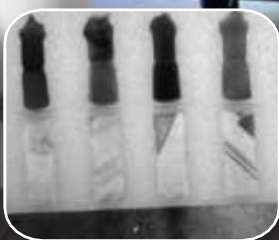


One centre control for all operation & imaging functions



Imaging at 120kV

Images



Venue : Bilik Software, T03 UIRL, Universiti Teknologi Malaysia, Skudai
Date : 8th to 9th August 2017
Time : 09:00 am - 05:00pm
Jointly Organized by : Unit Pengurusan Makmal Universiti & Hi-Tech Instruments S/B



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Programme

8th August 2017 - Day 1 (Theory & System Demonstration)

09:00am - 09:30am	: Registration & Welcome
09:30am - 10:00am	: Introduction to TEM and its Basic Principles
10:00am - 10:30am	: Tea Break
10:30am - 11:00am	: Advances with HR TEM Technology, its Operations & imaging capabilities
11:00am - 12:30pm	: HR TEM Applications and Introduction to Diffraction & EDS Analysis attachment
12:30pm - 02:00pm	: Lunch
02:00pm - 03:30pm	: Group Demonstration 1
03:30pm - 05:00pm	: Group Demonstration 2
05:00pm	: End

9th August 2017 – Day 2 (Viewing & Discussion on samples – applications and sample preparations)

09:00am - 11:00am	: Sample Observation Group 1*
11:00am - 1:00pm	: Sample Observation Group 2*
02:30pm - 04:30pm	: Sample Observation Group 3*
04:30pm	: End

** Maximum 5 per group*

Registrations

1st day Workshop (Public University & Staffs) : RM 50 (inclusive of meals, handouts and certificate)
(Industry) : RM 100 (inclusive of meals, handouts and certificate)

2nd day Workshop (Public University & Staffs) : RM 100 (entitled for 1pcs RM100 sample analysis voucher)*
(Industry) : RM 200 (entitled for 1pcs RM200 sample analysis voucher)*

** Sample analysis voucher only applicable for participants attending for both days*

For more details:

Email: a.muslehuddin@utm.my @ nurfarhana@utm.my