

# Virtual X-ray Diffraction Clinic



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**Date:** 27<sup>th</sup> April 2021  
**Venue:** Online via Google Meet

Virtual X-ray Powder Diffraction Clinic was organized to provide a short training about analyzing the X-ray diffraction (XRD) data. XRD technique is commonly used for phase identification to characterize samples such as cement, ceramics, metal, alloys and any inorganic materials. Thus, the intention of the clinic is to provide a short training on how to perform phase analysis, extract further information about crystal structure, lattice symmetry and determine lattice parameters of the unit cell. Therefore, further understanding about the crystallographic properties of that particular samples could be revealed through XRD data.

from Universiti Malaysia Perlis (UniMAP), Universiti Putra Malaysia (UPM), Universiti Kebangsaan Malaysia (UKM), Universiti Teknologi MARA (UiTM), Universiti Tunku Abdul Rahman (UTAR), Universiti Malaysia Pahang (UMP), Universiti Tun Hussein Onn Malaysia (UTHM), Curtin University of Malaysia, Universiti Malaya (UM), Universiti Sains Malaysia (USM), Universiti Teknologi Malaysia (UTM), Agensi Nuklear Malaysia and Politeknik Melaka. This event had given a positive impact to the Institute of Materials Malaysia (IMM) in promoting the Materials Science and Engineering education in Malaysia.

The event was organized by the IMM Northern Region and the Centre of Excellence for Frontier Materials Research, Universiti Malaysia Perlis. The clinic was conducted for about two hours starting at 9.00 am through Google Meet platform. There was an open Q&A session shortly after the clinic. About 80 participants had attended the event. They are mostly academic staffs and postgraduate students

IMM Northern Region would like to express its appreciation to the speaker and all participants for the Virtual X-ray Powder Diffraction Clinic. Hopefully, it has provided meaningful knowledge and information to all participants. Furthermore, we also would like to thank the Centre of Excellence for Frontier Materials Research, Universiti Malaysia Perlis for hosting the clinic.



Figure 1: Promotional poster for X-ray Powder Diffraction clinic

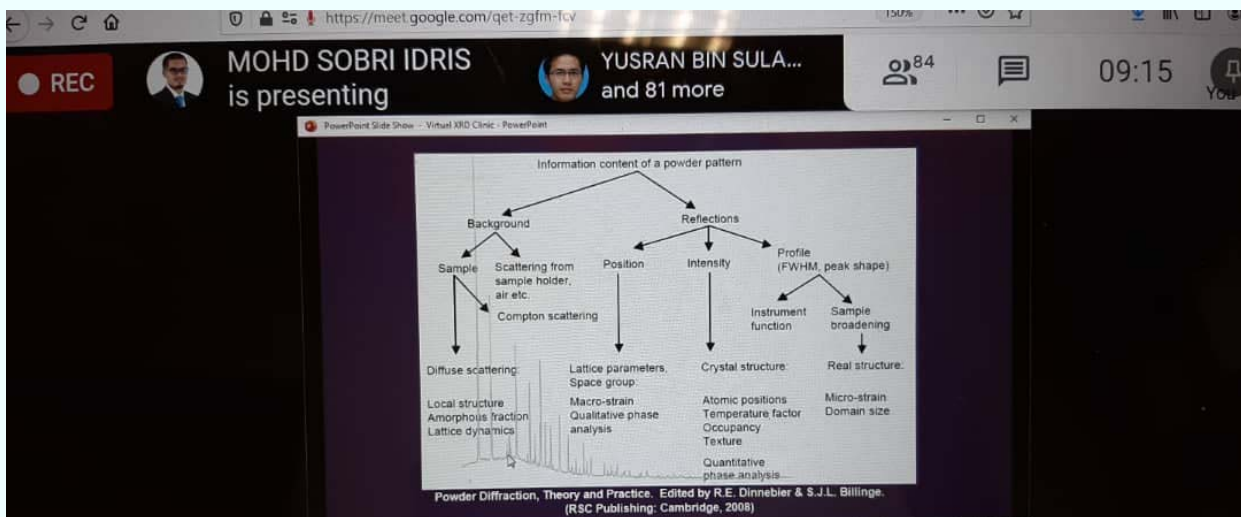


Figure 2: X-ray Powder Diffraction clinic was broadcast through Google Meet



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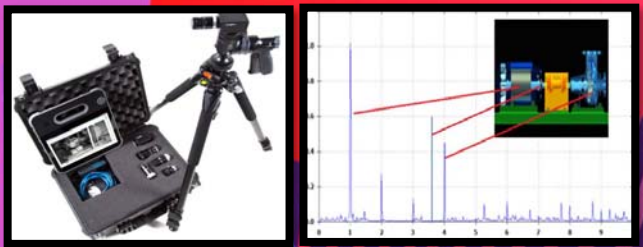
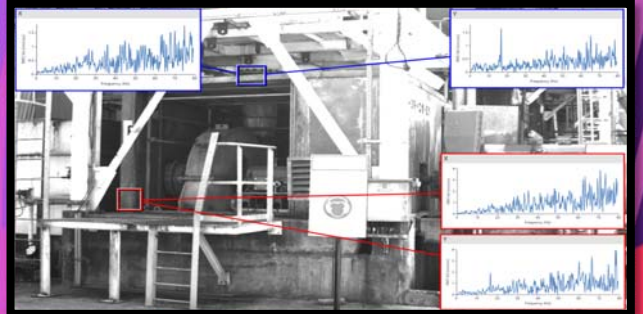
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## HIGHLIGHTS

- ◆ Advanced Vibration Troubleshooting on A Rotating Equipment.
- ◆ Application of FTIR Structural Analysis for Dried Coating Failure Investigation in Oil & Gas Industry.
- ◆ Utilization of Natural Fiber Towards Structural Applications Under Dynamic Loading Through MWCNT Enhanced Polymer Nanocomposite.



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