**S183** 

# Report

**Academic Year 2020 – 2021** 

Name of the Event: National Workshop on "X-ray Diffraction: Good Analytical

Practices"

Date: 4 August 2020

Venue: Online (Google Meet), <u>meet.google.com/dmo-xume-zjc</u>

Organized by: Post Graduate and Research Department of Physics, Vimala

College (Autonomous) Thrissur

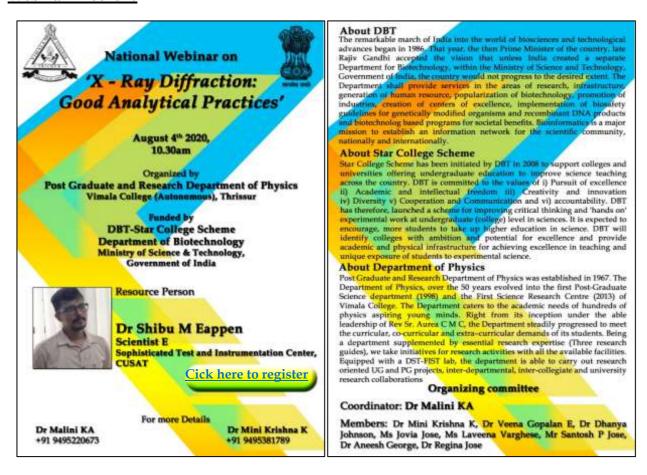
Participants: 198

#### Report:

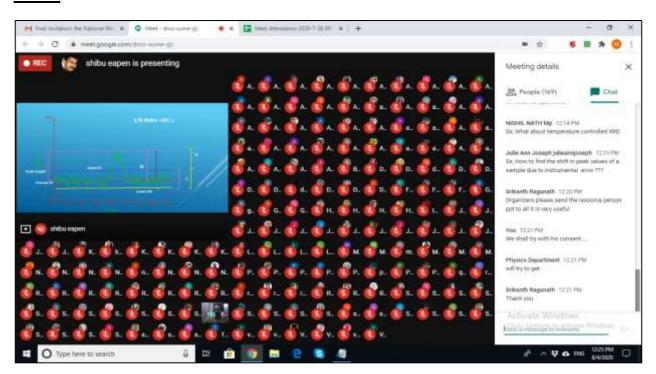
The webinar was hosted on the Google Meet platform. Due to technical glitches, the webinar started half an hour behind the schedule. The coordinator Dr. Mini Krishna K welcomed the resource person and the participants to the webinar. The speaker started the session by explaining the various criteria for good quality diffraction data. He then discussed in detail the factors affecting the accuracy and precision of results, which includes the contributions from the sample, instrument, sample preparation errors and data analysis errors. The effect of particle size on the diffraction data was discussed and the methods to minimize the errors from sample preparation were suggested. Various diffractometer geometries were introduced and the importance of suitable optics on the characterization process was explained. Data analysis was discussed on the basis of comparison with the standard databases and profile fitting methods. Towards the end the speaker familiarized the participants to the vital parts of a latest good quality spectrometer in their laboratory. The session ended at 1:10 pm and was followed by a discussion and interaction for nearly 20 minutes. The resource person answered the queries raised by the participants. The Head of the Department, Dr Malini K A winded up the session by proposing vote of thanks to the resource person and the participants. A feedback form was circulated at the end to the participants for them to fill in their opinion about the session and to attain their E-certificate.



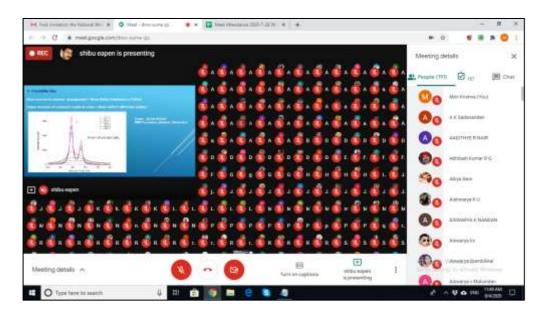
#### **Webinar Brochure**

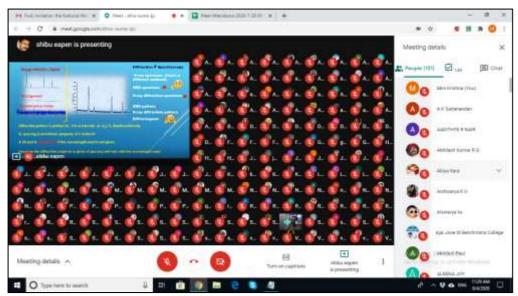


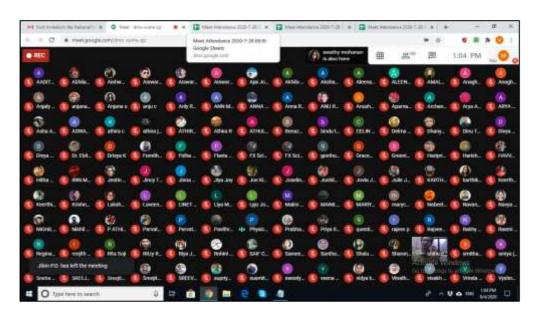
#### **Photos**













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