

**Day 4: 23<sup>rd</sup> January 2020**

09.30 - 04.30 pm : Oral Presentations  
04.30 - 05.00 pm : Concluding session

#### Organizing Committee

Patron : **Hon'ble Vice Chancellor**  
University of Calicut

Convener : **Dr. Sindhu S.**  
Head, Dept. Nanoscience & Technology, University of Calicut

Members : **Dr. Deepa K.G.**, University of Calicut  
**Dr .Divya P**, University of Calicut  
**Dr. Lakshmykanth T.M.**, University of Calicut  
**Dr. Nijisha P.**, University of Calicut  
**Dr. Kishore Sridharan**, University of Calicut

#### Advisory Committee

**Dr. M. R. Anantharaman**, CUSAT, Kochi  
**Dr. Vijayamohan K Pillai**, IISER, Tirupati  
**Dr. Prashanth Ravindran**, Pondicherry University  
**Dr. Sandhyarani**, NIT, Calicut  
**Dr. Nandakumar Kalarikkal**, MG University  
**Dr. Vinodkumar A.M.**, University of Calicut  
**Dr. Yahya A.I.**, University of Calicut

#### Contact:

**Convener**, Dept. of Nanoscience and Technology  
University of Calicut, Phone: 0494 2407373, 9846800644, 8277058337  
Email: [waatms2020@gmail.com](mailto:waatms2020@gmail.com)

\* Details regarding abstract submission and registration are available at <http://14.139.185.6/waatms2020/home.html>

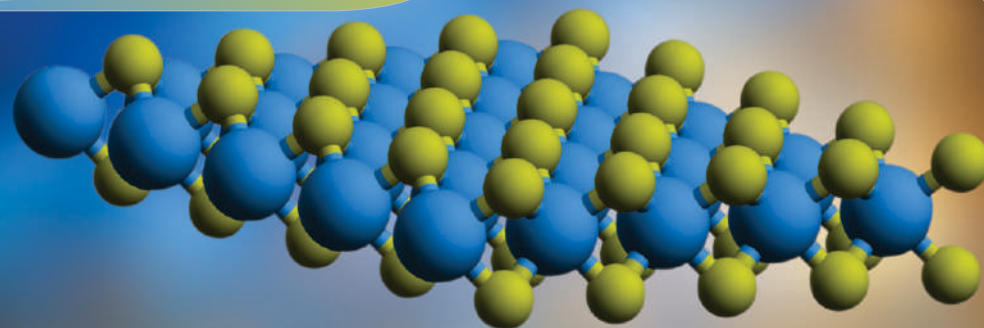


## UNIVERSITY OF CALICUT DEPARTMENT OF NANOSCIENCE AND TECHNOLOGY

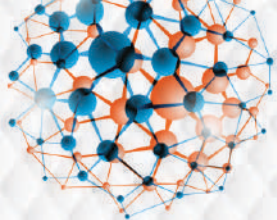
### National Workshop on **ADVANCED ANALYTICAL TECHNIQUES IN MATERIALS SCIENCE** **[WAATMS 2020]**

**2020** January **20 - 23**

Organised by  
Department of  
Nanoscience and Technology  
University of Calicut







## Scope of the Workshop

WAATMS2020 incorporate specific topics in analytical technique often used in materials science. The workshop propose to help the researchers at the beginner as well as experienced level to get familiarized with essential characterization techniques. Eminent experts in this field will deliver speeches on the basics of analytical techniques along with an in-depth analysis of the data generated with the focus being microscopic and spectroscopic techniques. We also highly encourage contributory oral presentations by the participants.

## Department of Nanoscience and Technology

Department of Nanoscience & Technology was established in 2010 in the University of Calicut. The department is funded by UGC under XIth plan. The department has an M.Tech program in Nanoscience & Technology with an intake of 10 students. Ph.D program in the areas of alternative energy sources, sustainable nanomaterials and carbon nanomaterials is also offered by the department. Fully established lab and instrumentation facility in the department has been utilized by several Post-graduate students and researchers as part of their projects.

## Important Dates

Abstract Submission : 05 Dec 2019  
Acceptance Notification : 10 Dec 2019  
Registration Closes : 31 Dec 2019

Category	Fee
Student/Academician	Rs. 500
Industry	Rs.2000

## WORKSHOP SCHEDULE

### Day 1: 20<sup>th</sup> January 2020

- 09.00 am : Registration  
10.00 - 11:00 am : Inauguration  
11.15 - 01.00 pm : **Scanning Electrochemical Microscopy**  
**Dr. Vijayamohanan K. Pillai**, IISER, Tirupati  
02.00 - 03.30 pm : **Electrochemical Characterization of Super capacitors**  
**Dr. Rakhi R.B.**, University of Kerala  
03.45 - 05.15 pm : **Mossbauer Spectroscopy**  
**Dr. Abraham Joseph**, University of Calicut

### Day 2: 21<sup>st</sup> January 2020

- 09.30 - 11.00 am : **Transmission Electron Microscopy**  
**Dr. Suresha S.J.**, IISc, Bangalore  
11.30 - 01.00 pm : **X-ray powder diffraction: Principles and Practice**  
**Dr. Alok Kumar Mukherjee**, Jadavpur University  
02.00 - 05.00 pm : **Tutorial session on XRD analysis including Rietveld Refinement**  
**Dr. Swastik Mondal**, CGCRI, Kolkata  
05.00 - 06.00 pm : Oral Presentations

### Day 3: 22<sup>nd</sup> January 2020

- 09.30 - 11.00 am : **Mass spectrometry in materials science**  
**Dr. Jobin Cyriac**, IIST, Thiruvananthapuram  
11.30 - 01.00 pm : **Fundamentals of NMR spectroscopy and spectral analysis**  
**Dr. Vinesh Vijayan**, IISER, Thiruvananthapuram  
02.00 - 05.00 pm : **Introduction to X-ray Photoelectron Spectroscopy and tutorial session on analysis**  
**Dr. Rohan Fernades**, ICON Analytical

