

### ORGANIZING COMMITTEE

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### Communication

Centre of Excellence, TEQIP-II

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### CONFIRMED SPEAKERS

- Dr. K. Muraleedharan, CGCRI
- Prof. Satyam Suwas, IISc Bangalore
- Prof. N. K. Mukhopadhyay, IIT BHU
- Prof. A. K. Chakraborty, IIT Kharagpur
- Prof. K. K. Ray, IIT Kharagpur
- Prof. R. Mitra, IIT Kharagpur
- Prof. U. K. Chatterjee, IIT Kharagpur
- Dr. Debalay Chakrabarti, IIT Kharagpur
- Prof. Rabibrata Mukherjee, IIT Kharagpur
- Prof. P. C. Chakraborti, Jadavpur University
- Dr. I. Chattaraj, NML Jamshedpur
- Dr. Amitava Mitra, NML Jamshedpur
- Dr. Swapan Das, NML Jamshedpur
- Dr. Asish Panda, NML Jamshedpur
- Dr. Sarmistha Sagar, NML Jamshedpur
- Dr. T. Kundu Ray, VECC
- Dr. Partha Chatterjee, Vivekananda Maha., Hooghly
- Mr. B. D. Mukherjee, Leica Microsystems
- Prof. Amitava Basu Mallick, IEST Shibpur
- Prof. Subrata Chatterjee, IEST Shibpur
- Prof. Manojit Ghosh, IEST Shibpur
- Prof. Swarup K. Ghosh, IEST Shibpur
- Dr. Sukumar Kundu, IEST Shibpur
- Prof. Tapendu Mandal, IEST Shibpur
- Dr. Debdulal Das, IEST Shibpur
- Dr. Mallar Ray, IEST Shibpur
- Dr. Arijit Sinha, IEST Shibpur
- Dr. Sandip Bysak, CGCRI

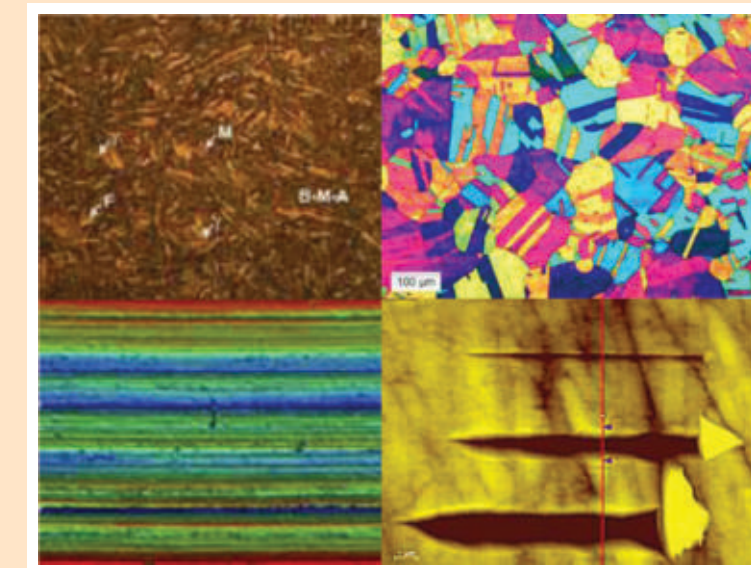
MCPP 2016

Workshop on

## Materials Characterization: Principles and Practices

July 25 – August 5, 2016

IEST Shibpur, Howrah, India



Organized by

Centre of Excellence (CoE, TEQIP II)

Indian Institute of Engineering

Science and Technology, Shibpur

B. Garden, Howrah – 711 103, India

## About The WORKSHOP

Organizing the workshop on *Material Characterization: Principles and Practices* is inspired by the unprecedented advancement in materials technology during the last couple of decades to cater the need of widely diversified technological areas in the multiscale-multidisciplinary paradigm. In the pathway of such development, materials characterization has been elevated from the diagnostic to the design paradigm. Since inception, the CoE has emerged as a multidisciplinary platform to conduct research and training in the domain of design, development and evaluation of the emerging materials. In this endeavor, it is realized that the available teaching and training framework on materials characterization in our country is still less than sufficient to fulfil the need of the large population of researchers and technicians engaged in the frontiers of materials research. In view of the above, the subject domains and schedule of the workshop have been structured to conduct a systematic knowledge upgrade and training within a multidisciplinary interactive ambiance under the mentorship of eminent experts.

## About IEST, Shibpur

**Indian Institute of Engineering Science and Technology (IEST), Shibpur**, is a premier national institution for research and education in engineering, science and technology. During its 160 years of glorious existence, the institute has produced brilliant engineers and technologists who have left their indelible mark over numerous engineering marvels across the entire globe. Located just across the bustling metropolis of Kolkata beside the River Hooghly, the 114-acre campus can be easily reached by air or by train. Accommodation of the participants may be organized on payment basis in hostels and guest houses either inside or close to the campus.

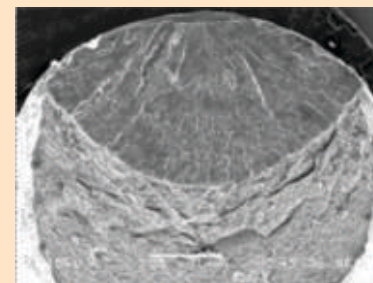
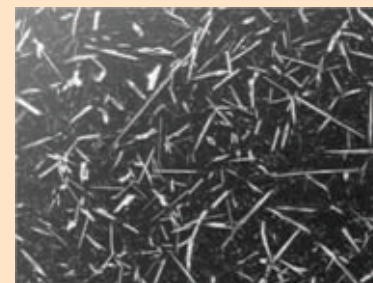
## About COE, TEQIP-II

The *Centre of Excellence on Microstructurally Designed Advanced Materials* was established in 2013 with the financial assistance received under the TEQIP II scheme. The centre focuses on multi disciplinary research, training and development of concepts in computation, design, characterization and application of materials in the areas of advanced sensor materials, affordable bio-implants, crash worthy structural steel, alternative permanent magnetic materials and materials refurbishment. Apart from carrying out research in the areas mentioned above, the centre also aims at creating technologies that can be commercially exploited by industries.

## THE TOPICS TO BE COVERED

*The broad areas to be covered in the workshop are:*

- **Optical Microscopy**
- **Scanning Electron Microscopy**
- **Scanning Tunneling Microscopy**
- **Transmission Electron Microscopy**
- **Atom Force Microscopy**
- **X-ray Diffraction**
- **DTA-TGA & DSC**
- **Spectroscopy**
- **Electrical and Magnetic Characterizations**
- **Hardness, Compression and Tensile**
- **Nanoindentation**
- **Fatigue**
- **Fracture**
- **Creep**
- **Tribology**
- **Corrosion**
- **Failure analysis**
- **Non-destructive testing**



## PARTICIPATION

The workshop is aimed for post graduate students, research scholars and faculty members/scientists. The number of seats is limited. The participants will be chosen on selection basis. Interested candidates are requested to apply for the registration by e-mailing (mcppiists@gmail.com) the personal details such as *Name, Designation, Organization, Research area/interest, Postal address with e-mail and mobile number etc* latest by July 14, 2016. The selected candidates will be informed on July 15, 2016.

A *symposium on Materials Characterization* for young researchers is scheduled at the last day (August 5, 2016) of the Workshop. Article specifically addressing any given aspect of materials characterization is invited. Interested researchers are requested to submit an Abstract (one A4 page, within 500 words) for consideration for oral (15 min) presentation latest by July 15, 2016. The full length paper (equivalent to 4000 words) will be considered for possible inclusion in the Edited Book of the Workshop with ISBN number.

For further details, see <http://www.iests.ac.in>

## Registration Fees

Registration fees for workshop include conference kits, souvenir, access to presentation materials, lunch and tea *etc* on all working days as well as one hard copy Edited Book.

| Type                                | INR    |
|-------------------------------------|--------|
| Academia                            | 5,000  |
| R & D Organization                  | 10,000 |
| Industry                            | 15,000 |
| Symposium ( <i>August 5, 2016</i> ) | 3,000  |

Payment should be made by Demand draft drawn in favor of "MCPP 2016" payable at Kolkata.