

ELECTRON MICROSCOPE SOCIETY OF INDIA (EMSI)

Established in the Year 1961, the objective of EMSI is to promote Electron Microscopy and the various Allied Techniques and their applications in carrying out scientific research towards the development of Science and Technology in India. The society has a drive to motivate the scientific community especially the young researchers towards efficient use of Electron Microscopy and associated techniques available with today's state-of-the-art instruments. Please visit: <https://www.emsi.org.in/>

INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH (IGCAR)

IGCAR was established in the year 1971, under the Department of Atomic Energy, Government of India. The centre is engaged in broad based multidisciplinary programmes of scientific research and advanced engineering directed towards the development of Fast Breeder Reactors and associated fuel cycle technologies. Please visit: <https://www.igcar.gov.in/>

Dr. R Divakar

Chair, Pre-conference Workshops

Dr. Arup Dasgupta

Convener, Pre-conference Workshops

Co-conveners:

Dr. R. Mythili

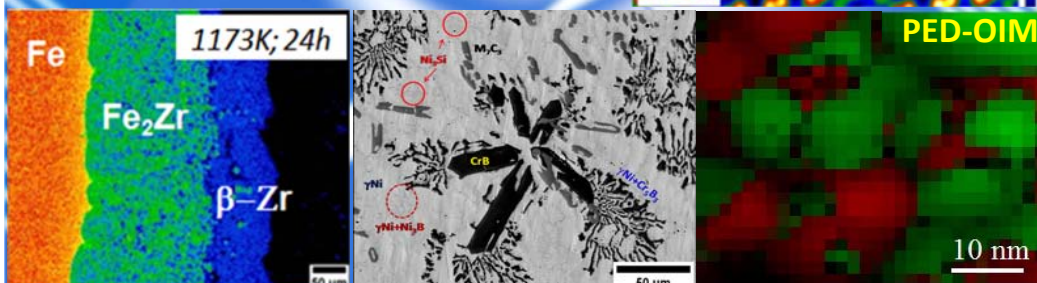
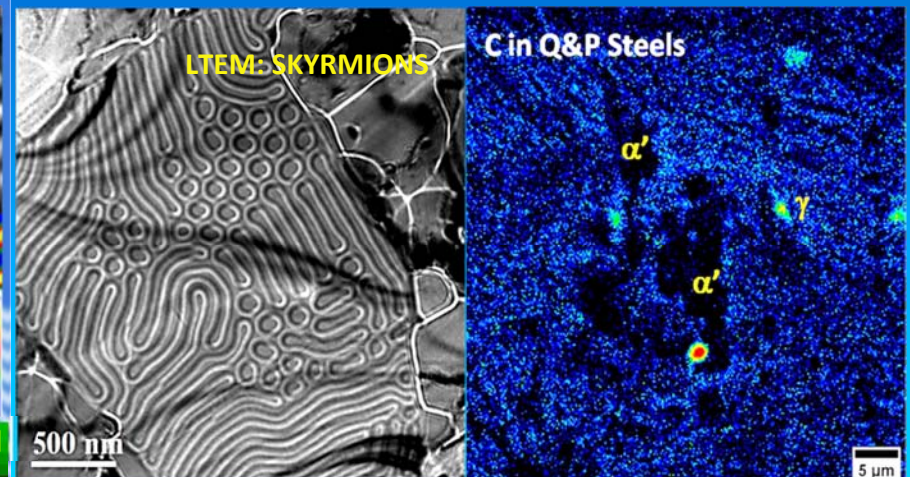
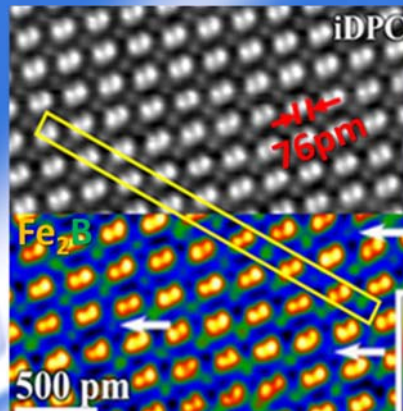
(Advanced STEM based techniques)

Dr. C. Sudha

(Principles and practice of EPMA)

Dr. B.B. Lahiri

(Organisation)



Metallurgy and Materials Group

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Pre-Conference Workshops on Advanced Scanning TEM based Techniques and EPMA

EMSI Workshop 2025

July 09 -10, 2025

Venue

Indira Gandhi Centre for Atomic Research
Kalpakkam 603102, Tamilnadu India



Organized by
Electron Microscope Society of India
Indira Gandhi Centre for Atomic Research,
Kalpakkam



Pre-conference Workshops

Pre-conference workshops are the parts of 43rd Annual Meeting of Electron Microscope Society of India (EMSI) scheduled to be held at IISc., Bangalore. The Pre-conference Workshop is being organized by EMSI, Indira Gandhi Centre for Atomic Research, Kalpakkam to provide hands-on experience on the principles and practice of cutting-edge STEM and EPMA based techniques directly from eminent experts and peers from India and abroad.

Scope of the Workshops

Pre-conference workshops, a part of EMSI 2025 conference include two workshops with the following details:

- Advanced Scanning TEM based techniques with major emphasis on magnetic domain imaging using Lorentz TEM and LMSTEM-differential phase contrast imaging; Orientation Imaging Microscopy using Precession Electron Diffraction (PED-OIM)
- Principles and practices on Electron Probe Micro Analysis (EPMA)

Confirmed Speakers

- Prof. Rafal Dunin-Borkowski, ERC, Jülich, Germany
- Prof. Muriel Veron, Grenoble INP, France
- Prof. Dipankar Banerjee, IISc, India
- Dr. G K Dey, BARC (Retd.), India
- Dr. R Balamuralikrishnan, DMRL, India
- Dr. Raghavendra Tewari, BARC, India
- Dr. Divakar R, IGCAR, India
- Prof. Kaustubh Kulkarni, IIT Kanpur
- Dr. Arijit Laik, BARC, India

How to Attend?

These workshops are aimed at young faculty, scientists, postdocs, and research scholars who regularly use electron microscopy in their research. Prior knowledge of basic electron microscopy (for all) and particularly of TEM/ STEM, for the TEM Workshop are necessary. Each workshop can accommodate a maximum of 25 participants. Preference will be given on a first-come, first-served basis. Detailed information on the application process will be announced on the EMSI website.

IMPORTANT DATES

Last date for application:

June 18, 2025

Venue

Indira Gandhi Centre for Atomic Research, Kalpakkam, which is a premier R&D centre under the Dept. of Atomic Energy. It is 80 Kms south to Chennai. Some of the nearby tourist attractions are, Mahabalipuram, also known as Mamallapuram, is a UNESCO World Heritage site. It lies on the gorgeous Coromandal Coast facing the Bay of Bengal. It is 56 kms from Chennai and is famous for spectacular stone artifacts, temples and the beach.

Registration Fee

This Workshop is part of the EMSI 2025 Conference; all participants must register for the conference, which will be held at IISc., Bangalore, from 12 – 14 July. However, in addition to the conference registration, the registration fee for attending the pre-conference workshop at IGCAR, Kalpakkam, from 09 – 10 July is Rs. 2500. The Registration fee covers the delegate kit, tea, and lunch on Workshop days. Please refer to <https://www.emsi2025.com/> for more details.

Accommodation

Subject to availability, the participants can be accommodated at DAE Guest Houses in Kalapkkam/ Anupuram on a payment basis if intimated well in advance.

For membership of EMSI
please visit:<http://emsi.org.in/membership.php>
You can become a life member of EMSI
for just Rs. 1888/- or USD 36

