



Thematic Workshop on Science and Engineering of Materials using Ion Beams and Gamma Radiation



organised jointly by
UGC-DAE Consortium for Scientific Research, Kolkata Centre
&
Variable Energy Cyclotron Centre

May 28-29, 2019

Venue – Variable Energy Cyclotron Centre, 1/AF, Bidhannagar, Kolkata – 700 064

PATRONS

Amitava Roy, Director, VECC
Ajit K Sinha, Director, UGC-DAE
CSR

A Thematic workshop on Science and Engineering of Materials at nano-scale and beyond utilizing ion beams and gamma radiation will be jointly organised by UGC-DAE Consortium for Scientific Research (UGC-DAE CSR), Kolkata Centre and Variable Energy Cyclotron Centre (VECC), Kolkata during May 28-29, 2019.

ADVISORY COMMITTEE

Abhijit Saha, Centre Director,
UGC-DAE CSR, Kolkata Centre-
Chairman
Arup Bandyopadhyay, VECC,
Co-Chairman
Paramita Mukherjee, VECC
Vaishali Naik, VECC
Pintu Sen, VECC
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S. S. Ghugre, UGC-DAE CSR,
Kolkata Centre
M. Sudarshan, UGC-DAE CSR,
Kolkata Centre

During the course of the workshop there will be some lectures by eminent scientists highlighting the role of ion beams and gamma radiation in their unique ability to tailor material properties. The objective of the workshop is to initiate collaborative research programs which will utilize ion beam facilities at VECC and other Institutes besides the gamma irradiation facility at UGC-DAE CSR, Kolkata Centre in the field of materials science.

The gamma irradiation facility at UGC-DAE CSR has the provision for homogeneous irradiation of solid and liquid samples with a dose rate of about 2 kGy/h.

The various ion beam facilities in VECC can deliver high energy ion beams of H, He, N, O, Ne in the energy range of 7-10 MeV/A and low energy ion beams of H, He, B, C, N, O, Ne, Ar, Ni, Zn, Ag in the range of 6-15 keV

The topics covered during the workshop will focus on applications and effects of ion beams and gamma radiation in the field of -

- Synthesis of nanostructures
- Functional materials
- Structural materials and devices
- Bio-materials
- Emerging engineering materials

ORGANISING COMMITTEE

J.B.M. Krishna, UGC-DAE CSR,
Kolkata (Convener)
Prasanta Karmakar, VECC (Co-
convener)
Dirtha Sanyal, VECC
Tapas Kumar Bhaumik, VECC
Gayathri N Banerjee, VECC
Ranjini Menon, VECC
Tapati Kundu Roy, VECC
Santu Dey, VECC
Argha Dutta, VECC
Tanmoy Das, VECC
Tapas Kr Mishra, UGC-DAE
CSR, Kolkata Centre
Anindita Chakraborty, UGC-
DAE CSR, Kolkata Centre
Rajarshi Raut, UGC-DAE CSR,
Kolkata Centre
Souvik Chatterjee, UGC-DAE
CSR, Kolkata Centre
P.V. Rajesh, UGC-DAE CSR,
Kolkata Centre

Young faculty members and research scholars of Universities and colleges, working in the related areas, can send their application for participation to the convener of the workshop at semibgr2019@gmail.com.

The application should include the following particulars (i) Name (ii) Present affiliation (iii) Brief Resume. The applications from students should be forwarded by the concerned faculty of the respective institution. There will be a students' poster session where students can display their work in the relevant area. Students interested to participate in poster session should mention the same in their application. Travel support will be provided only to limited number of participants, as per GOI rules, limited to AC 2 Tier for faculty and AC-3 tier for the students. The last date for submission of application is **April 30, 2019**.