

International School
on
Ion Beams in Energy Materials

Organized by
Inter University Accelerator Centre (IUAC), New Delhi India
July 12-18, 2018

Inter-University Accelerator Centre (IUAC) has made an impact on the research community of universities by providing world class facilities in accelerator based research in Nuclear Physics, Materials Science, Atomic & Molecular Physics, Radiation Biology and Earth Sciences. This centre will be hosting an International School on Ion beams in Energy Materials during July 12-18, 2018 in view of multi-dimensional research being carried out by a large number users and energy requirements of the country. This school will provide educational opportunities for PhD scholar, postdoctoral fellows, and young scientists, preferably below 30 years of age in this important and advanced field of research. School will be focused mainly on three themes namely materials for nuclear reactor, photo-voltaic/photo catalytic and thermoelectric applications. The school will cover both basic physics as well as technologies related to the ion beam in energy materials. The following topics, including the role of ion beams in the modifications of the properties of materials will be discussed:

- **Materials for Nuclear Reactor Applications**
 - Synthesis of advanced nuclear materials
 - Modification of structure of materials under extreme conditions
 - Glass matrix and ceramics based advance waste for immobilization of high level waste (HWL)
 - Materials for nuclear fuels
- **Light Harvesting Materials & Devices**
 - Introduction to renewable energy sources & solar photovoltaics
 - Photovoltaic & Photo-catalytic materials
 - Thin films and multi-junction based photo-diodes and solar cells
- **Thermoelectric Materials**
 - Introduction to thermoelectric materials
 - Conventional thermoelectric materials
 - Oxides/Nitrides based hybrid system

How to apply:

Request for the participation may be sent by e-mail provided below along with following details:

- a. Curriculum vitae (Max two pages)
- b. Brief write-up (less than 200 words) on “How will be the participation beneficial for your research?”
- c. Recommendation letter from the Supervisor or Head of the Department/Organization

Registration fee:

Registration fee covers kit and local hospitality during the school days. It can be paid by Demand Draft/ Electronic Transfer / Cash at the registration desk.

- Indian participants: Rs. 3000
- Foreign participants: € 250

Important Date:

- Request for participation (by email) : 10th April – 15th May 2018 (**Extended till 25th May, 2018**)
- Intimation for selected participants : 31st May 2018
- Request for partial support (for registered Ph. D. students only) : 15th June 2018

Contact:

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