



Two Days National Workshop cum Theme meeting on

Accelerator Based Interdisciplinary Research in Basic Sciences

March 28 – 29, 2012

Department of Pure & Applied Physics
Guru Ghasidas Vishwavidyalaya, Bilaspur 495 009

A national workshop cum theme meeting is aimed at identifying and intends to have a thorough discussion on the current areas of research in various fields of studies using Ion Beams. The discussion will be focused mainly on the 3MV pelletron accelerator facility coming up in the Department of Pure & Applied Physics at Guru Ghasidas Vishwavidyalaya (a recently upgraded central university), Bilaspur along with online and offline facilities. These include Ion Beam implanter, Rutherford Back Scattering (RBS) and particle induced X-ray emission techniques that will be available online and surface electron microscopy, atomic force microscopy, X-ray diffraction, impedance spectroscopy, Photoluminescence, Differential scanning calorimetry, Fourier transform infrared spectrometry, UV-VIS spectrometry, ferroelectric and electrical characterization facilities available off-line in our department.

TOPICS COVERED

- Ion beams as a probe in the analysis of physical and chemical samples
- Ion beam analysis using PIXE & RBS
- Ion beam irradiation induced material modifications
- Ion-beam induced nano-structure
- Ion-implantation for semiconductors and novel materials
- Shift Heavy Ion induced ion tracks and their applications
- Low energy nuclear physics

Through this theme meeting researchers will get acquainted with the upcoming facility and attempt will be made to generate a pool of users for the proposed facility. Program will comprise of invited talks/plenary discussion/research presentations etc. Faculties/Scientists and research students from universities/colleges/institutes and personnel from Industries are welcome to attend this theme meeting.

HOW TO APPLY

Interested Faculty/ Research Scholars/Students can send the following details through email (or on plain paper), (i) name, (ii) designation (iii) name of the university/college/institute (iv) address for correspondence (including e-mail id) and (v) research interests.

The application must reach the Organizing Secretaries, ABIRBS, Dept. of Pure & Applied Physics, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur-495009, CG; E-mail: krishichayan@gmail.com / g.ajai71@gmail.com; Phone: 91 – 7752 - 260477

Registration fees: Rs.500 for research scholars/students, Rs.1000 for faculties, Rs.2000 for personnel from Industries.

Patron

Prof. L. Chaturvedi
Vice-Chancellor

Convener

Dr. P.K. Bajpai

Co-convener

Dr. R.K. Bhowmik

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Dr. A.K. Gupta

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