**Event**

Scholar in residence programme under Erudite scheme. Visit of Dr. Purushottam Chakraborthy, Senior Professor, SAHA Institute of Nuclear Physics, Kolkatta

**Venue & Date**

International School of Photonics, CUSAT on 03 – 12, August 2015

**Organizations**

International School of Photonics

**Brief Objectives**

Dr. Purushottam Chakraborthy is a leading scientist working in the area of Surface analysis of low dimensional structures at SAHA Institute of Nuclear Physics, Kolkatta. This programme was arranged to facilitate the interactions of our M.Sc/M.Tech/Ph.D students with Dr. Purushottam Chakraborthy.

Apart from sharing his rich experience in the area of Fiber Optics, he could also give a good exposure to the facilities available at Saha Institute to our students. It was also envisaged to open up future collaborative programmes between this leading Central Government Institute and CUSAT.

**Participant No. Categorywise**

M.Sc - 40

M.Tech - 15

Ph.D - 20

**Special Invitees** Dr. V.Sivannadan Achari, Prof. School of Environmental Studies, Cusat, Dr. Benjamin Varghese, Prof. BPC. College, Piravom, Dr. S.K. Sreenivasan Nair, Prof. ToCH Institute, Dr. Samuel Varghese, NeST Photonics were the special invitees. (Invitation was extended to all the departments in CUSAT through our website and students from Departments of Instrumentation, Physics and Electronics were specially invited)

**Proceedings** Yes

**Form** Video

**Outcome**

Benefits to department: Saha institute is already collaborating with International School of Photonics in the characterization of nanomaerials and for encouraging student projects. One of our M.Sc Photonics student Ms. Geethika Muaraleedharan has already worked with Prof. Purushottam for a summer project. The visit of Dr. Purushottam Chakraborthy will further strengthen this collaboration and enable us to take up more ambitious programmes and projects. During his visit he has promised us to help in the **Molecular Beam Epitaxy (**MBE), which is one of their area of expertise.

**Research Scholars and students**

During the interaction sessions with Research scholars and students Dr. Purushottam Chakraborthy gave a detailed picture regarding the facilities available at Saha Institute. He has outlined the areas of research presently undertaken by them. This has enabled students (M.Sc/M.Tech and Ph.D) to select topics for their project work at CGCRI. Ph,D students were fortunate enough to gather valuable research tips during the interactive sessions. The students were intensely benefitted by the 9 lectures delivered on this occasion.

Schedule of the Lectures delivered

Lecture I. 16.03.2015 – 11.00 AM – 12.30 PM - Optical fiber amplifier theory, fabrication and applications.

Lecture II. 17.03.2015 – 11.00 AM – 12.30 PM – Fiber Bragg Gratings and Fiber laser, fabrications and applications

Lecture III. 17.03.2015 – 2.30 PM – 4 PM – Nonlinear photonic crystal fiber and hollow core photonic crystal fiber, theory, fabrication challenges and applications.

**University & Others**

The visit of Dr. Purushottam Chakraborthy has given him sufficient feedback regarding the strengths of this University and International School of Photonics. This can lead to major collaborative programmes and projects between CUSAT and SAHA Institute of Nuclear Physics in the near future.