**Events**

Scholar in Residence Program. Visit of Dr. Shyamal Kumar Bhadra

**Venue and dates**

International School of Photonics, 16-18 March 2015

**Organizers**

International School of Photonics

**Brief objectives**

Dr. S.K. Bhadra is a leading scientist working in the area of Fibre optics at Central Glass and Ceramic Research Institute, Kolkata. This programme was arranged to facilitate the interactions of our M.Sc/M.Tech/Ph.D students with Dr. S.K. Bhadra.

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

**Participants No. category wise**

M.Sc- 40

M.Tech- 15

Ph.D- 20

**Special Invitees**

Prof. V.P.N. Namboori. Dr. S.K. Sreenivasan Nair, Dr. SamuelmVarghese (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: CGCRI is already collaborating with ISP in the fabrication of fiber bragg grating and fiber optic sensors. The visit of Dr. S.K. Bhadra 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 development of fiber amplifier, which is one of their areas of expertise.

**Research scholars and students**

During the interaction sessions with research scholars and students, Dr.S.K. Bhadra gave a detailed picture regarding the facilities available at CGCRI. He has outlined the areas of research presently undertaken by them. This has enabled students to select topics for their project work at CGCRI. Please note that presently 5 M.Sc students are carrying out their 10th semester project at CGCRI. Ph.D students were fortunate enough to gather valuable research tips during the interaction sessions.

These students were intensely benefitted by the 3 lectures delivered on this occasion. The lectures are:

**Lecture 1:** 16.03.2015- 11.00 AM-12.30 PM- Optical fiber amplifier theory, fabrication and applications.

**Lecture 2:** 17.03.2015- 11.00 AM-12.30 PM- Fiber Bragg Gratings and Fiber laser, fabrications and applications

**Lecture 3:** 17.03.2015- 2.30 PM-4 PM- Nonlinear photonic crystal fiber and hollow core photonic crystal fibre, theory, fabrication challenges and applications.

**University and Others**

The visit of Dr. S.K. Bhadra has given him sufficient feedback regarding the strengths of this university and ISP. This can lead to major collaborative programmes and projects between CUSAT and CGCRI.