**Event**

Scholar in residence programme under Erudite scheme. Visit of Prof. Raman Kashyap, Polytechnique, Montreal, CANADA.

**Venue & Date**

International School of Photonics, CUSAT on 30October – 09, Novemeber 2015

**Organizations**

International School of Photonics

**Brief Objectives**

Prof. Raman Kashyap is a leading scientist working in the area of Fibre Bragg Gratings and fibre optic sensors. This programme was arranged to facilitate the interactions of our M.Sc/M.Tech/Ph.D students with Raman Kashyap.

Apart from sharing his rich experience in the area of Grating Fabrication and characterization,, he could also give a good exposure to the other major facilities available at , Polytechnique, Montreal, CANADA to our students. It was also envisaged to open up future collaborative programmes between this leading research Institute and CUSAT.

**Participant No. Categorywise**

M.Sc - 40

M.Tech - 15

Ph.D - 20

**Special Invitees** Dr. C.P.Girijavallabhan, Emeritus Prof. ISP, 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: Prof. Raman Kashyap is a pioneer in the Fibre Bragg Grating research and Polytechnique Montreal is well known for its facility for writing all kinds of Fibre gratings which is a very costly affair. The visit of Prof. Raman Kashyap will 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 **Fibre Bragg Grating fabrication** which is one of their area of expertise. Prof. Kashyap also assured student internships for M.Sc and PhD students of ISP at Canada during the next two years.

**Research Scholars and students**

During the interaction sessions with Research scholars and students Raman Kashyap gave a detailed picture regarding the facilities available at Montreal Canada. He has outlined the new 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 Monreal. Many students have submitted their proposals to work with Prof. Kashyap directly. Ph,D students were fortunate enough to gather valuable research tips during the interactive sessions. The students were intensely benefitted by the 6 lectures delivered during this period.

Schedule of the Lectures delivered

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| **Date** | **Time** | | **Topic** |
| 30-9 2015 | 2.30 pm | Enabling Cell Phones with Photonics | |
| 1-10-2015 | 2.30pm | Photonics Research at Fabulas lab, Canada | |
| 6-10-2015 | 2.30pm | Fibre Bragg Gratings | |
| 7-10-2015 | 2.30pm | Surface Plasmon Resonance based sensors | |
| 8-10-2015 | 2.30 pm | How not to give bad presentations | |
| 9-10-2015 | 2.30 pm | Ultra high resolution optical frequency domain reflectometry and stimulated Brillouin scattering in Optical fibres | |

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**University & Others**

The visit of Dr. Raman Kashyap 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 Polytechnique Montreal ,Canada.

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