

MQ Photonics Research Centre Webinars



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Speaker: Mr Saurabh Bhardwaj

When: Wednesday 29 April 2020

Time: 2 PM

Where: Zoom invitation Join from a PC, Mac, iPad, iPhone or Android device: Please click this URL to start or join: <https://macquarie.zoom.us/j/638365482> Join from dial-in phone line: Dial: +61 2 8015 2088 Meeting ID: 638 365 482

Title: Femtosecond laser inscribed point-by-point Bragg gratings in few mode optical fibres

Abstract: Bragg gratings in few-mode optical fibres is a versatile platform and can be used for several applications such as fiber laser generating specific spatial mode, fiber optic sensing, and spatial multiplexing. Bragg grating inscribed with a femtosecond laser using point-by-point techniques provides a high degree of flexibility to control the properties of Bragg gratings. In this talk I will briefly discuss the fields of femtosecond direct write technique and few-mode optical fibre and explain the mechanism we use to control the properties of the Bragg grating in few-mode optical fibre.

Bio: *Saurabh Bhardwaj obtained his M.Tech in Optoelectronics from S.G.S.I.T.S., Indore, India in 2014. In the same year he joined SAMEER, Mumbai, India as a research scientist working in the area of Terahertz technologies and Femtosecond direct write technique. Currently he is pursuing his PhD at Department of Physics and Astronomy, Macquarie University under the supervision of Prof. Michael Steel.*