

DEPARTMENT OF PHYSICS COLLOQUIA SERIES

11 am, Wednesday 28th May, E6A 102

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Emerging optical fibres for applications beyond data transmission

New classes of optical fibres are rapidly emerging that allow fibres to be used well beyond their established role in data transmission and into applications in a broad range of areas including sensing, biology, medicine, defence and optical data processing. These developments have been enabled by research in a diverse range of areas including physics, materials science, process engineering and fluid mechanics. Recent progress in a range of areas will be reviewed. In particular, the use of tiny air holes to modify the propagation of light will be described.