

## Dr Richard J Potton



Contact	Qualifications
Dr Richard J Potton Magdalene College Cambridge UK, CB3 0AG Email: rjp73 ' at ' cam.ac.uk	<ul style="list-style-type: none"><li>• BSc (1<sup>st</sup> Class, University of Sussex)</li><li>• DPhil (University of Sussex)</li><li>• Lecturer at the University of Salford 1 Apr 1972 - 1 Aug 2006</li><li>• Currently at the University of Cambridge</li></ul>

### Academic Interests

Optical fibres; nonlinear optics of waveguides; materials modification by nonlinear laser light /matter interactions; symmetry restrictions on optical phenomena especially in solids; reciprocity; lossy media

### Publications

- James M Christian, Graham S McDonald, Chamorro-Posada, P, Richard Potton, (2007), Helmholtz Solitons in Power-Law Optical Materials, PHYSICAL REVIEW A v76, Art no 033834, 2007
- Richard Potton, (2006), Characterization of thin real-time holographic media by dithered four-wave mixing, Measurement Science and Technology
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- Richard Potton, S Yasir, (2003), Qualitative differences between phase and amplitude Bragg gratings, In Fibre Gratings and Special Fibres, Photonex03, Coventry
- Richard Potton, S Yasir, (2002), Can  $\chi^{(2)}$  gratings be written in D-section optical fibres?, -Photon02, Cardiff
- Richard Potton, (2001), Central Laser Facility, Annual Report 200-2001
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- Richard Potton, (2001), Photosensitive glasses, Lasers For Science Facility Users Meeting, Rutherford Appleton Laboratory
- Richard Potton, (2001), Projection operators for time-symmetrized states in Fock space, JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 2001
- Richard Potton, (2000), Optical fibre stimulated Raman scattering - evidence for internal rotations in vitreous silica, Applied Optics and Optoelectronics Conference
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- Richard Potton, (1999), Adaptive spatial filtering using photochromic glass, Measurement Science and Technology
- Potton, Rj, Interferometer Drift Compensation Using Photochromic Glass, Applied Optics And Optoelectronics 1998 : 217-217 1998
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- Birss, Rr, Keeler, Gj, Pearson, P, Et Al., Capacitive Instrument For Measurement Of A Large Range Of Magnetostriction At Low-Temperatures And High Magnetic-Fields, J Phys E Sci Instrum 11 (9): 928-934 1978
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