

Co-sponsored by the

Institute *of* **Physics**
Optical Group



In-Fibre Gratings and Special Fibres

The meeting is the tenth in the series launched successfully in 1994. Its scope includes all aspects of in-fibre gratings (Bragg and long-period), special fibres and their applications in enhancing the performance and capabilities of communications and sensing systems

A One-Day Meeting, 8th October 2003, at Photonex2003, Stoneleigh Park, Coventry

Location: Avon Suite - registration is necessary for this meeting

10:00	Introduction to meeting:	
10:10	Gratings in novel fibre geometries for application in shape sensing	H. Dobb, A. Gillooly, T. Allsop and D.J. Webb, Aston University.
10:30	Distributed feedback Yb ³⁺ /Er ³⁺ codoped fibre grating lasers for ultrasonic wave sensing	Chen-Chun Ye and Ralph P. Tatam, Cranfield University.
10:50	Optical Wear Sensor By utilisation of A Chirped Fibre Bragg Grating	A Gillooly, K E Chisholm*, L Zhang and I Bennion, Aston University and *Indigo Photonics
11:10 - Coffee break -		
11:30	Distributed temperature sensing using based on a chirped fibre Bragg grating	P C Won, J Leng, Y Lai and J A R Williams, Aston University
11:50	Photorefractivity of Sb-Er-Ge codoped silica fibre for writing grating with high temperature stability	S. Pal, J. Mandal, Y.H. Shen, T. Sun, K.T.V. Grattan and M. Sun*, City University and *China Building Materials Academy
12:10	Temperature and strain insensitive Fabry Perot cavities formed using chirped fibre Bragg gratings	C. Sammy Cheung, Chen Chun Ye, S.W. James and R.P. Tatam, Cranfield University
12:30 - lunch and exhibition visit -		
14:30	Extended range multiplexing of FBG sensors using an Arrayed Waveguide Grating	D.C. Norman, R.D. Pechstedt and D.J. Webb, Aston University
14:50	External refractive index sensitivity of long period gratings with thin film overlays	Imran Ishaq, S.W. James and R.P. Tatam, Cranfield University
15:10	Application of superimposed grating structures for optimisation of fibre laser performance	Y Lai, W Zhang and JAR Williams, Aston University
15:30	Qualitative differences in behaviour between phase and amplitude Bragg gratings	R J Potton and S Yasir, University of Salford
15:50 - tea break -		
16:10	Axially displaced, non-overlapping parallel fiber grating structure in a conventional multimode fibre	X. Chen, Y. Lai, K. Zhou, L. Zhang and I. Bennion, Aston University
16:30	Controlled bandwidth Moire transmission filter written using microstitching phase mask technique	J Mitchell (Indigo Photonics) not yet confirmed
17:10 - end of meeting -		

Registration forms from www.photonex.org or call +44 (0)1372 750555