

IN-FIBRE GRATINGS AND SPECIAL FIBRES

IOP | Institute of Physics
Optical Group



PROGRAMME

One-day Meeting: **Wednesday, 17 October 2007**

At Photonex07, Stoneleigh Park, Coventry, UK

To be held in the Townes Room/Royal Pavilion, please follow signs from the Exhibition Hall

THIS IS A FREE MEETING

| Time | Title and Speaker |
|-------|--|
| 10:10 | Coffee & networking |
| 10:30 | Introduction to meeting |
| 10:40 | Fibre gratings in GeO₂ glass fiber by IR femtosecond laser inscription <i>Rui Suo¹, Yicheng Lai¹, Kaiming Zhou¹, Lin Zhang¹, Ian Bennion¹, Xin Jiang², Joris Lousteau², Animesh Jha².</i> ¹ Photonics Research Group, Aston University, Birmingham. ² Institute for Materials Research, University of Leeds, Leeds. |
| 11:00 | Direct UV written waveguides and Bragg gratings in novel substrates <i>James C. Gates, Christopher H. Holmes, Andy Webb, Rafiq Adikan, Corin B. E. Gawith, Jayanta Sahu, Peter G. R. Smith.</i> Optoelectronics Research Centre, University of Southampton, Southampton. |
| 11:20 | Long period grating (LPG) – based humidity sensors <i>T Venugopalan, T L Yeo, M Rajesh, T Sun and K T V Grattan</i> School of Engineering and Mathematical Sciences, City University, London. |
| 11.40 | Optical fibre pH sensor based upon a nanostructured coating deposited onto a long period grating <i>C.S. Cheung, W. Tyrrel, S.W. James and R.P. Tatam</i> Engineering Photonics Group, School of Engineering, Cranfield University, Cranfield. |
| 12.00 | Long period grating (LPG) pair-based chloride sensors <i>C Chung-Chun-Lam, M Rajesh, S Kaed-Bey, T Sun and K T V Grattan</i> School of Engineering and Mathematical Sciences, City University, London. |
| 12:20 | Lunch and exhibition |
| 14:30 | Sensing properties of tilted FBGs <i>Edmon Chehura, Stephen W. James and Ralph P. Tatam</i> Engineering Photonics Group, School of Engineering, Cranfield University, Cranfield. |
| 14:50 | Realisation of Single Polarisation Fibre Ring Laser by Intracavity 45° Tilted Fibre Bragg Grating <i>Chengbo Mou, Kaiming Zhou, Xianfeng Chen, Lin Zhang, Ian Bennion</i> Photonic Research Group, School of Engineering and Applied Sciences, Aston University, Birmingham |
| 15:10 | Pressure sensors based upon the transverse loading of fibre Bragg gratings <i>Ricardo Correia, Edmon Chehura, Jin Li, Stephen James and Ralph P. Tatam</i> Engineering Photonics Group, School of Engineering, Cranfield University, Cranfield. |
| 15:30 | Afternoon refreshments |
| 15:50 | Photomodification of polymethyl methacrylate for structuring polymer optical fibre <i>Alexandra Baum, Patricia Scully.</i> Photon Science Institute, The University of Manchester, Manchester. |
| 16:10 | Recent Development in Bragg Grating Technology for Polymer Optical Fibre <i>C.Zhang¹, K.E.Carroll¹, D.J.Webb¹, KKall², A.Argyros³, M.C.J.Large³, M.A.van Eijkelenborg³, G.Emilianov⁴, O.Bang⁴, E.Kjær⁵.</i> ¹ Photonics Research Group, Aston University, UK. ² Higher Technical Institute, Nicosia, Cyprus. ³ Optical Fibre Technology Centre, University of Sydney, NSW 2006, Australia. ⁴ COM•DTU Dept. of Communications, Optics & Materials, Technical University of Denmark, Denmark. ⁵ Danish Polymer Center, Technical University of Denmark, Denmark |
| 16:30 | Porous sensitised polymer coatings for polymer optical fibres <i>John Vaughan, Patricia Scully.</i> Photon Science Institute, The University of Manchester, Manchester. |
| 16:50 | End of meeting |

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