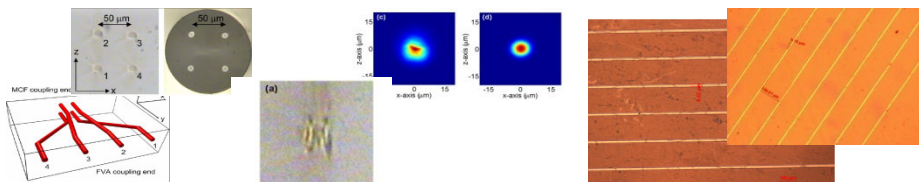


## Demonstrations on the Open Day

- *Packaged 1200nm semiconductor laser diode for spectroscopy and solid-state laser pumping*
- *Glass-on-semiconductor integrated waveguiding device*
- *Glass-on-polymer integrated planar waveguides*
- *Integrated liquid crystal / polymer device*
- *Yb:KG(Y)W waveguide laser fabricated by fs laser inscription*
- *Femtosecond-laser inscribed high gain optical amplifier*
- *Erbium-doped tellurite fibre laser with wide tunability,*
- *Biomedical applications, Raman data acquisition / OCT - video*
- *Femtosecond-laser waveguide inscription process - video*

## Posters on the Open Day

- *Engineering of rare-earth doped tellurium oxide glasses for femtosecond-laser writing and PLD*
- *High-slope efficiency bulk glass lasers for mid-IR*
- *Modelling of hybrid structures of dissimilar materials for waveguide engineering and fabrication*
- *Modelling and fabrication of  $Tm^{3+}$  and  $Tm^{3+}/Ho^{3+}$  fibre lasers*
- *Femtosecond-laser inscription of fan-out and nonlinear waveguide devices*
- *Femtosecond-laser inscription of active waveguides*
- *Broadly tunable fibre lasers in the C and L bands*
- *1200 nm Q-dot lasers and its applications in femtosecond-waveguide integration*
- *Our Basic Technology Project – General overview*
- *Knowledge transfer activities of the project*



## Open Day

# Nano- and Micro-scale Integration of Glass-on-Semiconductor for Photonic Components Engineering

**9 September 2009**

**CAPE, University of Cambridge**

*The meeting format will include a plenary talk, demonstrations, presentations and posters*

**Basic Technology Project Sponsored by**



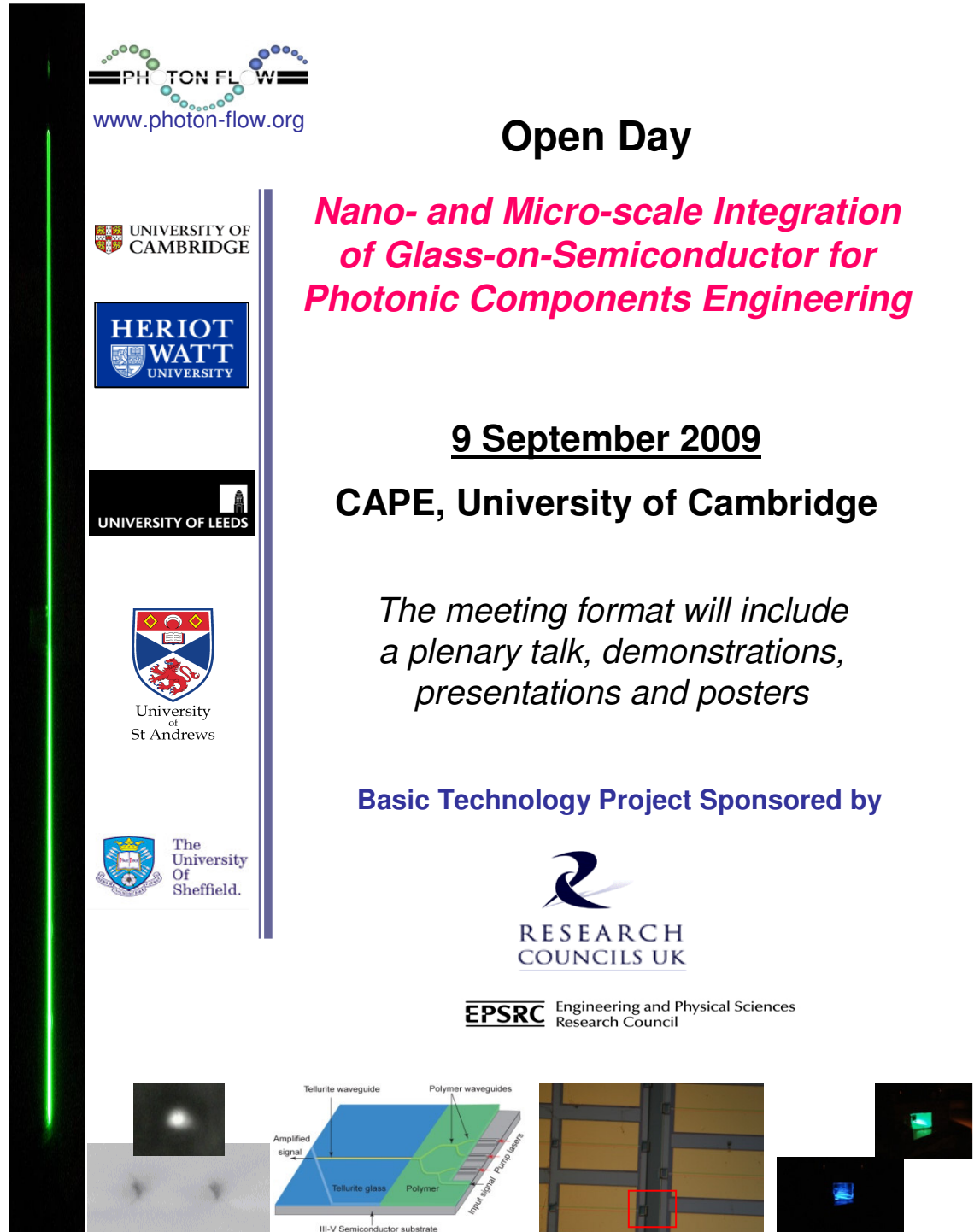
**EPSRC** Engineering and Physical Sciences Research Council



University of St Andrews



The University of Sheffield.



## Programme

9 September 2009

10:00-10:30	Arrival and Registration
10:30-10:45	Inaugural Session
10:45-11:20	Plenary talk : <i>Femtosecond-laser-written optical waveguides for optical communications and biophotonic applications</i> , Prof. Giulio Cerullo, National Laboratory for Ultrafast and Ultraintense Optical Science – CNR-INFN, Politecnico di Milano
11:20-13:30	Technical Presentations
13:30-14.30	Lunch, CAPE
14:30-16:00	Demonstrations and Posters

Presentations will be given by academics and researchers involved in the project on various topics of the project.

- *Overview of the Basic Technology project*  
*Animesh Jha, University of Leeds*
- *Glass Materials Engineering for the whole of the project*  
*Animesh Jha, University of Leeds*
- *Dissimilar Materials Processing using a combination of techniques* *Gin Jose, University of Leeds*
- *Femtosecond-laser inscription approach for device fabrication*  
*Robert Thomson, Heriot-Watt University*
- *Semiconductor laser Engineering*  
*Richard Hogg, University of Sheffield*
- *Applications of Engineered devices*  
*Richard Penty, University of Cambridge*
- *Medical Applications of Engineered Devices*  
*Tom Brown, University of ST. Andrews*

Our Basic Technology Project Team cordially invites you to join us on our OPEN DAY, organised as a part of our mid-term review of our project, on the theme of “**Nano- and Micro-scale Integration of Glass-on-Semiconductor for Photonic Components Engineering**” . The main focus of the research is on the “integration strategies for dissimilar photonic materials for device and components engineering”. The Open Day is an opportunity to interact with the Research Team, constituted predominantly from the participating academic partners and their collaborations.

The Open Day will take place at the Centre for Advance Photonics Engineering (CAPE), 9 J J Thomson Avenue, Cambridge CB3 0FA.

This Open Day will include a number of knowledge dissemination activities, lectures, posters, and demonstrations. To help us with the organisation we ask that you inform us whether you are likely to attend the meeting, so that we, as your host, can be prepared to make your day enjoyable and informative.

Please contact: Joy Bielby at the Institute for Materials Research [j.bielby@leeds.ac.uk](mailto:j.bielby@leeds.ac.uk)

Phone: 44 113 343 2342, Fax: 44 113 343 2348

For more details and update visit [www.photon-flow.org](http://www.photon-flow.org)

Direction for CAPE can be found at:

<http://www-cape.eng.cam.ac.uk/>