UV, IR & THz
Solid State Sources & Detectors

10.30 ~ 17:00, 14 January 2009

Royal Scots Club, 29-31 Abercromby Place, Edinburgh, EH3 6QE

The Photonics KTN, Scottish Optoelectronics Association, OptoCem.Net and IEEE LEOS invite you to attend and participate in this exciting workshop event.

Research and industry continue to push the availability of solid state sources and detectors into shorter UV, longer IR and Terahertz wavelengths. Devices at new wavelengths open up new applications and cause step changes in the cost and performance of systems which use them. New and potential applications include, Gas and Chemical Sensing (UV, IR), Disinfection (UV), Imaging (IR, THz), etc.

Speakers from the systems and applications community, source and detector manufacturers and leading researchers will give talks on new developments in their fields. Up coming FP7 and UK Technology Programme funding opportunities will be outlined. The Event will conclude with an open forum discussion on the key needs and technology drivers and timelines for UV/IR sources and detectors.

The Event will be of great interest to both companies and researchers in the field and everyone will have the opportunity to participate. Every attendee will be invited to present 2 slides on their activities and interests. Time will be set aside for networking with new and existing contacts.

Event Programme:

10:30 Registration

11:00 Welcome & Introduction to Photonics KTN, SOA, OptoCem.Net and IEEE LEOS, Dr Alistair Tweedie, SOA, PKTN and OptoCem.Net

11:10 Keynote Address: "Can optoelectronic technologies meet tomorrow's sensing needs?" Dr Frank Turnbull, Honeywell Sensing and Control

11:30 "UV Source Needs for Water Purification", Richard Joshi, atg UV Technology

11:50 2 slide Introductions from Participants, Session 1 – see below for guidelines

12:10 Lunch

13:10 "Spectral Coverage of the UV and THz Range Using Visible and NIR Semiconductor Diodes", Dr Wilhelm Kaenders, Toptica Photonics AG

13:30 "New Pyroelectric IR Sensors and Imaging Devices", Dr Carsten Giebeler, Pyreos

13:50 2 slide Introductions from Participants, Session 2 – see below for guidelines

14:10 Coffee Break and Networking

14:30 "Emerging Technologies for Low Cost Semiconductor UV Sources & Detectors", Dr Peter Parbrook, University of Sheffield

14:50 "Bridging the Terahertz Gap with New Sources & Detectors", Prof. Malcolm Dunn, University of St Andrews

15:10 "TSB and FP7 opportunities for UV, IR and THz Sources & Detectors", Alastair McGibbon, TUV/NEL

15:30 "Key Needs and Technology Drivers for UV, IR and THz Sources and Detectors", Open Forum Discussion

16:00 Refreshment & Networking

17:00 Close

2 Slide Guidelines:

- 2 slides only, any more and only first 2 will be added to master presentation
- No videos please
- Keep it relevant to meeting subject
- Short to facilitate networking - think elevator pitch!
- Send 2 slides to alistair.tweedie@optoelectronics.org.uk

BY Friday 9th January LATEST

To register for this event please email:
alistair.tweedie@optoelectronics.org.uk

Sponsoring Organisations:

The Photonics KTN is one of over 20 Knowledge Transfer Networks set up by the UK Government's Technology Strategy Board. Its objective is to promote the UK photonics community through representation to Government, networking events, a rich content portal and providing guidance and advice. For more information please visit: www.photonicsktn.org

The Scottish Optoelectronics Association is the trade association for optoelectronics in Scotland. Its objectives are to actively promote the interests of the Scottish optoelectronics industry and academic research community. The Association is a Partner in the Photonics KTN. For more information please visit: www.optoelectronics.org.uk

OptoCem.Net is the UK Optoelectronic Gas and Chemical Sensing Network. Its objectives are to promote the interests of companies and researchers involved in the use of optoelectronics for gas and chemical sensing. For more information please see: www.optocem.net

IEEE LEOS is The Lasers and Electro-Optics Society of the Institute of Electrical & Electronics Engineers. The LEOS field of interest covers lasers, optical devices, optical fibres, and associated lightwave technology. The LEOS Scottish Chapter provides a forum for interaction between the large Scottish laser and optoelectronics research population in universities and industry. For more information please see: http://www.leos-scot.ac.uk

Travel to Venue/Parking:

Edinburgh Waverley Railway Station (just off Princes St) is 0.7 miles.
There is some pre payment parking in Heriot Row, just next to Abercromby Place.