

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

Photon08

The UK's premier conference in optics and photonics

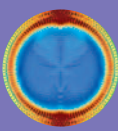


→ 26–29 August 2008
Edinburgh Conference Centre,
Heriot-Watt University, UK

→ www.photon.org.uk

Encompassing the Optics and Photonics Division Conference, the Quantum Electronics and Photonics Conference, an Industry Technology Programme, an exhibition and tutorials

Abstract deadline: 27 February 2008



Photon08

Photon08 is the largest optics conference event in the UK and the fourth in the series following Photon02 in Cardiff, Photon04 in Glasgow and Photon06 in Manchester. Photon08 will be held on **26 – 29 August 2008** at the Edinburgh Conference Centre on the Heriot-Watt University Campus.

Photon08 will comprise:

- **Optics and Photonics 2008** the biennial conference of the Optics and Photonics Division of the Institute of Physics. The conference includes sessions representing the Groups of the Division, and from the Fringe Analysis Special Interest Group.
- **QEP-18** the latest in the series of conferences initiated in 1973 by the Quantum Electronics and Photonics Group of the Institute of Physics.
- **An Industry Technology Programme:** sessions of particular interest to those in the optics industry.
- **An exhibition of the latest optics and photonics technology**
- **Plenary Lectures**
- **Tutorials**

We invite you to submit an abstract by **27 February 2008** in the format described at the end of the Announcement.

Photon08 is organized by the UK Consortium for Photonics and Optics; the UKCPO.

Optics and Photonics 2008

This is the biennial conference of the Optics and Photonics Division (formerly the Applied Optics Division) that brings together researchers in the fields of the following groups of the Institute of Physics: Combustion, Computational Physics, Environmental Physics, Instrument Science and Technology, Optical and Materials and Characterisation. A special issue of the *Journal of Optics A: Pure and Applied Optics* will be devoted to this conference.

The programme will include focused sessions on:

- **advances in imaging**
- **biophotonics**
- **combustion physics**
- **computational photonics**
- **diffractive optics**
- **fibre optic systems**
- **instrumentation and measurement**
- **microscopy and life sciences**
- **optical diagnostic engineering**
- **optical environmental sensing**
- **optical fibre sensors**
- **optical nanoscience**
- **optical tweezers**
- **optical techniques for materials characterisation and forensics**
- **optical vortices**
- **sensors and actuators**
- **structured optical materials**
- **smart x-ray and neutron optics**

Optics and Photonics 2008 will also encompass sessions of the Fringe Analysis Special Interest Group (FASIG). This is the latest in a series of national and international meetings dating back to 1985. It will be devoted to the latest innovations in interferometry, photomechanics and optical metrology, including their application to industrial measurement problems. Papers describing research in the following areas are particularly encouraged:

- **new measurement and analysis techniques**
- **phase shifting and phase unwrapping**
- **high-speed measurements on solids and fluids**
- **micrometre measurement techniques and applications**
- **shape measurement and 3D machine vision.**

A special issue of *Optics and Lasers in Engineering* will be devoted to the best papers from the FASIG conference.

QEP-18

This is the 18th meeting of a famous series and is organised by the Quantum Electronics and Photonics Group of the Institute of Physics.

The programme will include focused sessions on:

- **advances in laser science**
- **attosecond optics**
- **biophotonics**
- **coherent atom manipulation**
- **nanophotonics and plasmonics**
- **nonlinear optics**
- **metamaterials**
- **microstructured photonic materials**
- **organic semiconductors**
- **quantum cascade lasers**
- **quantum degenerate gases**
- **quantum dots**
- **quantum information processing**
- **quantum optics**
- **semiconductor optoelectronics and dynamics**
- **slow light**
- **terahertz**
- **trapping and manipulation**

QEP-18 is supported by the Quantum Optics, Quantum Information and Quantum Control (QQQ) and Semiconductor Physics Groups of the Institute of Physics

Industry Technology Programme

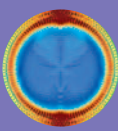
The ITP programme will be based on the TSB Technology Programme and Photonics KTN roadmapping which will have interest for both industry and academia. The ITP will be synchronised with the Academic Programme to allow interchange between parallel sessions.

Exhibition

Wednesday 27 August – Thursday 28 August

This exhibition is an integral and valuable part of the conference programme. It provides an opportunity for researchers, developers, engineers, entrepreneurs, systems integrators and managers to mix. The Photon08 conference infrastructure and the special location of the exhibition will ensure that the exhibition is a pivotal experience for the conference participants, so that old acquaintances can be renewed and new contacts created.

If you are interested in exhibiting at Photon08, please e-mail chris.gracie@optoelectronics.org.uk



Location

Visit Edinburgh and you will discover the perfect balance between old and new. Under the shadow of its famous national monuments, Scotland's capital hides a wealth of quality restaurants, café bars, art galleries, shops, museums and is famous for playing host to the world's largest arts festival. Edinburgh offers the excitement of a modern and thriving cosmopolitan city, whilst managing to retain all its historic splendour.

With its stunning Georgian and Victorian architecture, and winding medieval streets, it's easy to see why Edinburgh has been listed as a World Heritage Site. The capital is bustling with arts, culture, sports and attractions and is famous for playing host to the world's largest arts festival.

Venue

The conference and exhibition will take place at the Edinburgh Conference Centre on the Heriot-Watt Campus. En-suite accommodation will also be provided in the campus halls of residence. Further details will be available online in due course.

Social Events

Photon08 offers a rich social programme of events. There will be an informal reception on Monday 25, Tuesday 26 and Thursday 28 August. The gala dinner will be held at 'Dynamic Earth' on Wednesday 27 August and will include a pre-dinner drinks reception in the galleries which allows you to see, read, listen and feel your way through our planet's history, present and future. The Photon08 social programme provides participants the opportunity to network whilst encompassing some of Edinburgh's sites.

UKCPO

Photon08 is organised by the UK Consortium for Photonics and Optics – the UKCPO. The UKCPO is the organisation that represents the national photonics and optics community: manufacturers, researchers, industry, universities and government.

Membership is open to all professional bodies, learned societies, trade organisations, industry cluster groups and all similar organisations with interests in photonics and optics.

Current members include the Institute of Physics, the Institution of Engineering and Technology, the Scottish Optoelectronics Association, the Welsh Optoelectronics Forum, the Photonics Cluster, the Fibreoptic Industry Association, the UK Industrial Vision Association, the Association of Industrial Lasers Users, EPSRC and the DTI.

To find out more about UKCPO and their activities, please visit www.ukcpo.org.

For details on how to become a member please contact UKCPO Secretary, Chris Gracie chris.gracie@optoelectronics.org.uk.

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QEP-18 Chair

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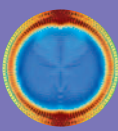
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Abstract Submission

Contributions of 250 words for oral and poster presentations are invited for Optics and Photonics 2008 and QEP-18.

Abstracts should be submitted on-line at www.photon.org.uk to the appropriate conference and session.

The abstract deadline is **27 February 2008**.

If you are unable to submit your abstract on-line or have any programme enquiries, please contact jon.mackew@iop.org

Further Information

Updated information about Photon08 is published at www.photon.org.uk and www.ukcpo.org

For more details about Photon08, please contact:

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