Photon12
IOP's premier event in optics and photonics

Contents

Enquiries ................................................................. 2
Sponsors ................................................................. 2
Location ................................................................. 3
Visa ................................................................. 5
Travel ................................................................. 5
Registration .......................................................... 5
Messages .............................................................. 5
Catering ............................................................... 5
Social programme ............................................. 6
Dietary information ............................................. 7
Internet access .................................................. 7
Accommodation .................................................... 7
Presenter's information ....................................... 8
Emergency evacuation procedure ..................... 8
First aid ............................................................... 9
Smoking .............................................................. 9
Cash dispensers and banks ................................... 9
Local shop, restaurants and pubs ......................... 9
Complaints .......................................................... 10
Map ................................................................. 11
Enquiries

General organisation
Dawn Stewart
Institute of Physics
76 Portland Place
London
W1B 1NT, UK
Tel: +44 (0)20 7470 4910
E-mail: dawn.stewart@iop.org

Programme Co-ordinator
Lauren Stacy
Institute of Physics
76 Portland Place
London W1B 1NT, UK
Tel: +44 (0)20 7470 4839

Registration enquiries
Conferences department
Institute of Physics
Tel: +44 (0)20 7470 4800
E-mail: conferences@iop.org

Conference chair:
Professor Allan Boardman
University of Salford
Email: a.d.boardman@salford.ac.uk

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Disclaimer
The Institute of Physics, Durham University and their approved representatives cannot take responsibility for any accident, loss or damage to participants or their property during the conference.
Location
The conference will be held at Durham University, Calman Learning Centre, on the University Science Site.

The talks will be held in the Calman Learning Centre and lunch will be held across in the Earth Science Rooms, a very short walk away, and also on the top floor of the Calman Building.

The conference accommodation is in Collingwood College, Grey College and University College (the Castle). Durham is a compact city and all are within walking distance of each other.

Venue
Durham University
Calman Learning Centre
Science Site
South Road
Durham, DH1 3LE
UK
Tel: +44 (0) 191 334 3996
Fax: +44 (0) 191 334 2892
Visit http://www.dur.ac.uk/its/theatres/calman/ for maps and directions.

Travel and Visas

By Car
There is no car parking at the University Science Site where the conference is taking place, nor at the Castle.
Delegates who are making their own accommodation bookings in local hotels should arrange their own parking either at the hotel or in the city. Note that Durham is small and a car is generally not needed for moving around between the City Centre, the conference location, and the Colleges. For delegates booked in rooms at Grey or Collingwood College we recommend you drive straight to the college and park there and then walk to the Calman Centre.

From the South and East
Drive north on the Al(M) and exit at Junction 61. Take the A177 signposted Bowburn and Peterlee. Follow the road, through Bowburn, for approximately three miles until you enter Durham. Turn left at the first roundabout on to Stockton Road. To access the University Science Site, where the conference is located (no parking here), turn left again after 50 yards. Instead, to drive to Collingwood or Grey College, keep straight on along Stockton Road and turn left at the next traffic lights onto South Road. Drive up the hill, and Grey and Collingwood Colleges are signed on the left hand side. The second turning takes you into Grey College and the third turning takes you to additional parking in Grey and also Collingwood College.

From the North and East
Drive south on the Al(M) and exit at Junction 62. Take the A690 to Durham. Follow the dual carriageway and at the first roundabout go straight ahead. Turn left just before the next roundabout into New Elvet and follow the road for approximately half a mile until the traffic lights on the hill. To reach the science site, bear left. At the roundabout turn right. After 50 yards turn left into main entrance of University Science Site (no parking here). Instead, to reach Collingwood & Grey College bear right. At the next traffic lights keep straight on up South Road. Drive up the hill,
and Grey and Collingwood Colleges are signed on the left hand side. The second turning takes you into Grey College and the third turning takes you to additional parking in Grey and also Collingwood College.

By Rail
Fourteen trains per day travel from London and Edinburgh to Durham. The journey takes less than three hours from London, one and a half hours from Edinburgh and forty-five minutes from York.

To Durham from London Kings Cross by train
There is a regular service from London Kings Cross to Durham; the journey time is approximately 3 hours (3.5 on a Sunday). The following website is useful for checking train times [www.thetrainline.com](http://www.thetrainline.com)

Current single / return fares from London Kings Cross to Durham:
Prices can vary enormously (check with National Rail for discount offers) so it is best to book as early as possible. Tickets purchased well in advance will usually be much cheaper than tickets purchased near or on the day of travel. Discount fare tickets are non-changeable and non-refundable, but can cost as little as £10 each way representing a huge saving.

Bookings can be made by telephone using debit or credit cards. However, the person who collects the tickets must be the cardholder.

For train times and fare information call National Rail Enquiries on 08457 48 49 50 or National Rail Enquiries from overseas (Please note: International rates apply): +44(0)20 7278 5240 or visit [www.nationalrail.co.uk](http://www.nationalrail.co.uk)

By Bus
There are several express coach services daily from most major cities.

By Air
The nearest airport is Newcastle International Airport. The airport is approximately 20 miles north of Durham. There are connecting flights from a number of European hubs including London Heathrow and Gatwick, Amsterdam, Paris and Brussels, and the airport is also served by a number of budget airlines. See [www.newcastleairport.com](http://www.newcastleairport.com) for full details.

A taxi from Newcastle airport to the College could cost approximately £45.00 one way. The journey will take approximately 40 minutes, longer in rush hour.

From Heathrow airport ([www.heathrowairport.com](http://www.heathrowairport.com)). Travel into central London to Kings Cross station. You can take either
a) the Heathrow Express train to Paddington station. Travel from Paddington to Kings Cross station on the Underground train on the Circle (yellow) line, or
b) the Underground train all the way from Heathrow to Kings Cross station on the Piccadilly (dark blue) line. This option is cheaper but takes longer.

From Gatwick Airport ([www.gatwickairport.com](http://www.gatwickairport.com)), we would recommend that you take the Gatwick Express train to Victoria station in central London (approximately 30 minutes). Travel on to Kings Cross station on the Underground train on the Victoria (pale blue) line.

For detailed information on travel within London, and maps of the Underground system, please see [www.tfl.gov.uk/gettingaround](http://www.tfl.gov.uk/gettingaround)
By Sea
European scheduled ferry services travel to and from Newcastle on a regular basis.

Durham City Centre
Download a copy of Durham city centre map

Tourist Information
For further information on Durham visit Durham Tourist Information Centre at www.thisisdurham.com

Visa
Citizens of the EU do not need a visa to enter Britain. If you are from any other country, find out about visa requirements before you travel at ukvisas.gov.uk

Registration
Registration will be held in the Calman Centre building foyer from Sunday 2 September to Thursday 6 September.

Times are as follows:

<table>
<thead>
<tr>
<th>Date</th>
<th>Times</th>
</tr>
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<tbody>
<tr>
<td>Sunday 2 September</td>
<td>16:00–19:00</td>
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<tr>
<td>Monday 3 September</td>
<td>08:30 –19:00</td>
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<tr>
<td>Tuesday 4 September</td>
<td>08:30 –18:00</td>
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<tr>
<td>Wednesday 5 September</td>
<td>08:30 -17:30</td>
</tr>
<tr>
<td>Thursday 6 September</td>
<td>08:30 –13:30</td>
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</tbody>
</table>

There will be no luggage storage at the Calman centre on Monday. Residential delegates should drop their luggage at Collingwood College before making their way to the Calman centre.

On arrival, each participant will receive a delegate pack containing a pen and pad, a programme and a lapel badge. Please wear your badge at all times because this will help with security and enable you to identify your fellow delegates. Replacement badges can be issued at the registration desk. On your departure, please return your badge to the registration desk so that it can be recycled.

Messages
A message board will be placed near the registration desk. Participants should check the board for messages as an attempt to locate participants will only be made in the case of an emergency. During registration times, messages can be left by emailing dawn.stewart@iop.org. Messages can also be sent by telephone to +44 079171 81183.

Catering
Refreshments, lunch and the gala dinner are included in the registration fee and are served at set times during the conference programme. Refreshments and lunches will be served in the Earth Sciences Rooms (ES228/229/230/231) in the Calman Centre. There is an additional café on the ground floor of the Calman Centre where you can purchase your own refreshments.
Monday 3 September
Mid-morning break 10:15-10:45
Lunch 12:15-13:45
Afternoon refreshments 15:15-15:45
Evening buffet 17:30-18:30

Tuesday 4 September
Mid-morning break 09:45-10:15
Lunch 12:00-13:45
Afternoon break 15:15-15:45

Wednesday 5 September
Mid-morning break 09:45-10:15
Lunch 12:15-13:45
Afternoon break 15:15-15:45

Thursday 6 September
Mid-morning break 09:30-10:00
Refreshments 11:30-12:00

Social Programme

Sunday 2 September - Welcome drinks reception – 16:00 - 19:00
A welcome drinks reception will take place in the Calman Learning Centre.

Monday 3 September – Evening buffet – 17:30 – 18:30
The buffet will precede the drinks reception. This event will take place in the Earth Sciences Building, ES228/229/230

Drinks reception – Durham Castle – 19:30 – 21:00
This event will take place in the Great Hall at Durham Castle. A talk will be given by Professor Sir Arnold Wolfendale FRS. Please note that spaces are limited and will be allocated on a first come first served basis. Booking details are available when registering to attend the conference. Entrance will be by ticket only which you will receive in your delegates pack. The Great Hall is approximately 15-30 minutes’ walk from the University. Coaches will be provided for delegates who are unable to walk to the venue.

Due to unexpected road works the coaches are unable to drive direct to the Castle. The buses will drop delegates off at the market square and then delegates will walk up hill to the Palace Green for another 5 minutes. Please note that the hill is quite steep and cobbled in some places, we would recommend that you wear correct walking shoes.

There is no disabled access at the castle. If you require aid can you please notify Dawn Stewart - dawn.stewart@iop.org - Coaches will depart by the security barrier off Stockton Road at 19:00. Coaches will not return to the University after the reception. Delegates will need to make their own travel arrangements after the reception.

Tuesday 4 September - Exhibitors drinks reception – 17:15 – 19:00
This event will take place in the exhibition area in the Earth Sciences building, rooms ES228/229/230
Wednesday 5 September –
The conference dinner is being held at Newcastle United Football Ground, St James Park in the Bamburgh Suite. The dinner is included within the registration fee. If you are unable to attend the conference dinner can you notify Dawn Stewart – dawn.stewart@iop.org as soon as possible. Coaches will depart from the Stockton Road Entrance of the Science Site (near the Calman Centre) at 18:00. A drinks reception will start at 19:00 and dinner will begin at 19:45.

Dietary requirements
Participants with special dietary requirements are asked to notify the conference office by e-mail prior to their arrival if they have not already done so when registering. Those with special dietary requirements other than vegetarian are asked to make themselves known to the catering team. It will not be possible to provide an alternative menu unless prior notification has been received. Nut allergies – unfortunately the University cannot provide assurances that food has not been cross-contaminated with traces of nuts during ingredient processing at manufacturer’s sites, and during food preparation and on-site. For this reason, we are unable to provide guarantees that any of the food served is free from nuts or trace elements. Please e-mail dawn.stewart@iop.org if you have any queries.

Internet access
A username and password will be provided to access the network in the conference areas – these can be collected at the registration desk. EDUROAM is also available.

Accommodation
Collingwood College
Durham University
South Road
Durham, DH1 3LT
Tel: +44 (0) 191 334 5000

The following amenities are included in the bedrooms: Tea/coffee making facilities, towels, shampoo, hairdryers, no internet access in bedrooms, but available in some public areas.

And
Durham Castle, (University College)
The Castle
Palace Green
Durham DH1 3RW
Tel: +44 (0) 191 334 4108

The following amenities are included in the bedrooms: Tea and coffee, towels, shampoo, hairdryer.
Please note, that there is no internet access anywhere in Durham Castle and no parking.

And
Grey College,
South Road,
Durham DH1 3LG

The following amenities are included in the bedrooms: Tea, coffee, hot chocolate, biscuits, bath towel, hand towel, bath mat, shampoo, conditioner, shower gel, soap, hairdryer, and coat hangers.
Parking is available at Grey and Collingwood College on a first come first served basis for delegates who are staying there. You must obtain a parking permit to display in the windscreen from the reception.

**Arrival**
Room keys are available from 14:00 on your scheduled day of arrival. Keys should be collected from the Reception.

**Departure**
Residential guests are asked to vacate their bedrooms by 10:00 on Thursday 6 September. Keys should be returned to the Reception desk.

**Breakfast**
Breakfast for residential participants will be served daily at 08:00 – until 09:00 in the College Dining Hall.

**Luggage**
Durham University is unable to offer secure luggage storage. Extended check out time is unavailable.

**Emergency evacuation procedures**
Please familiarise yourself with university emergency evacuation procedure. Details can be found in bedrooms and meeting room.

**Presenter's information**
Please bring a copy on a CD or USB memory stick.
You should save the presentation into the appropriate pre-named session folders on the desktop of the house computer and files should be saved by surname and initial.

To optimise compatibility, particularly for the inclusion of multimedia components, PowerPoint presentations should have been saved using PowerPoint's “Package for CD” facility. Direct connection of personal laptops (with set-up in the break prior to the corresponding session) is an acceptable but not preferred alternative.

The meeting space is reasonably large so speakers should use a minimum 15-point font size in PowerPoint slides to ensure legibility. Presenters are asked to prepare their talks to match the allocated times which will be rigidly enforced by session chairs. It’s either Windows 7 Enterprise or Windows XP, Office 2007 or Office 2010.

**Poster Presenter information**
Delegates presenting their poster on Monday 3 September can display their poster on their allocated poster board from 15:00 for presentation between 17:30 – 19:00 and then remove their poster by 12:00 on Tuesday 4 September.

Delegates presenting their poster on Tuesday 4 September can display their poster on their allocated poster board from 15:00 for presentation between 17:15 – 19:00 and then remove their poster by 12:00 on Wednesday 5 September.

Posters must not be larger than A1 in size - if your poster does not fit within these dimensions, we cannot guarantee it will be displayed. Fixing material will be provided to mount your poster. All posters must be removed on Wednesday by 12:00. Although organisers will endeavour to save poster material, no guarantee can be made for posters not removed by this time.
Safety information

Emergency evacuation procedures
All of the areas used by the conference are covered by the fire-alarm system. Occupants are expected to leave the building as quickly and safely as possible and make their way to a fire-assembly point. There will be fire alarm testing in the Calman Learning Centre on a Wednesday between 08:00 and 09:00 which lasts about a minute; and at Collingwood College on a Wednesday lunchtime which lasts about 2 minutes. All bedrooms have instructions concerning fire-alarm activation and which assembly point to go to, and all participants should familiarise themselves with the safety instructions on arrival.

First Aid
If you fall ill or injure yourself during the conference, please report the incident to the registration desk or a member of the university staff who will call a trained first-aider. In case of serious injury, paramedics will be called.

Smoking
In accordance with government legislation smoking is not permitted in any building.

Behavior and conduct
The Institute of Physics and Durham University reserves the right to charge in full for loss or damage to the university.

General

Local taxi numbers
Direct Taxis - 0191 386 2002
Bills Taxis - 0191 3867450 - 24 Pilgrims Way, Durham, County Durham, DH1 1HB
Pollys Taxis – 07774634765 and 07910179397

Travelling by taxi or minicab is generally very safe, but it is important to take sensible precautions, like making sure the vehicle is licensed.

Local bank and cash dispensers
The nearest cash dispenser is located on New Elvet.

Local shop
The closest shop for newspapers and confectionary is located New Elvet.

Local restaurants and pubs
The Market Tavern (Pub)
On Market Place, DH1 3NJ
Tel: 0191 386 2069;
Traditional British Pub serving traditional British food at reasonable prices.
The New Inn (Pub)
Just across the road from the Science Site.
DH1 3DN
Tel: 0191 384 7308;
Located just across the road from campus, has standard pub fare for low prices.

Chinese
In Shanghai
Below The Gates Centre, facing river, DH1 4SL
Tel: 0191 375 7333;
Good quality, buffet-style Chinese Restaurant. As well as providing a wide range of choice from the buffet, individually prepared side orders are also included with the meal.

Bistro Italiano
On Claypath, near The Capital. DH1 1QT
Tel: 0191 383 0374,
Consistently and reliably considered the best Italian restaurant in Durham

Dress code
The dress code for the conference and social events is casual attire.

Complaints
We hope that your time at the conference is enjoyable. However, should you encounter any problems during your stay, please report them to the conference registration desk as soon as possible. The conference team will make every effort to rectify the issue as soon as possible.

Maps
http://www.dur.ac.uk/greenspace/travel/maps/

The above link allows you to select two locations and get a walking map between them. Click on Collingwood College to the Calman Learning Centre. If you click on Open Street Map it seems to give the best view.
FORTHCOMING INSTITUTE CONFERENCES
AUGUST 2012 – JULY 2014

2012

10–11 September
Magnetic Tight Binding
Institute of Physics, London, UK
Organised by the IOP Computational Physics Group

20–21 September
A Celebration of the 50th Anniversary of the Diode Laser
University of Warwick, Coventry, UK
Organised by the IOP Quantum Electronics and Photonics and Semiconductor Physics Groups

8 – 9 November 2012
Complex Molecules at Surfaces II (CMAS-2)
Institute of Physics, London, UK
Organised by the IOP Thin Film and Surfaces Group

26–27 November
Biomolecular Thermodynamics
Institute of Physics, London, UK
Organised by the IOP Biological Physics Group

17–18 December
Topical Research Meetings on Physics: Quantum technologies: taking concepts through to implementations
Institute of Physics, London, UK

2013

16–18 January
AFPAC 2013 - 12th Anglo-French Physical Acoustics Conference
Villa Clythia, Fréjus, France
Organised by the IOP Physical Acoustics Group

17–18 January
Ferroelectrics UK 2013
University of Sheffield, Sheffield, UK
Organised by the IOP Materials and Characterisation Group

6–8 March
Adopting Quantum Computation 2013
Institute of Physics, London, UK
Organised by the IOP Quantum Optics, Quantum Information, Quantum Control Group

25–28 March
The 40th IOP Annual Conference on Plasma Physics
University of York, York, UK
Organised by the IOP Plasma Physics Group

25–28 March
Interdisciplinary Surface Science Conference (ISSC-19)
East Midlands Conference Centre, Nottingham, UK
Organised by the IOP Thin Films and Surfaces Group

7–10 April
IOP Nuclear Physics Group Conference 2013
University of York, York, UK
Organised by the IOP Nuclear Physics Group

10–12 April
Dielectrics 2013
University of Reading, Reading, UK
Organised by the IOP Dielectrics Group

24–25 June
Physics of Emergent Behaviour: from Molecules to Individuals
The Grand Hotel, Brighton, UK
Organised by the IOP Biological Physics Group

8–12 July
International Conference on Neutron Scattering (ICNS2013)
Edinburgh International Conference Centre, Edinburgh, UK

3–6 September
Electron Microscopy and Analysis Group Conference 2013 (EMAG)
University of York, York, UK
Organised by the IOP Electron Microscopy and Analysis Group

4–6 September
PR'13: International Conference on Photorefractive Effects, Materials and Devices
The Winchester Hotel, Winchester, UK
Organised by the IOP Optical Group and the IOP Quantum Electronics and Photonics Group

9–11 September
Physical Aspects of Polymer Science
University of Sheffield, Sheffield, UK
Organised by the IOP Polymer Physics Group

16–18 September
Sensors & their Applications XVII
Rixos Libertas, Dubrovnik, Croatia
Organised by the IOP Instrument Science and Technology Group

16–19 September
EuroDisplay 2013 (33rd International Display Research Conference)
Imperial College London, London, UK
Organised by the IOP Optical Group and Society for Information Display

18–20 November
High-speed imaging for dynamic testing of materials and structures – 21st DYMAT Technical Meeting
Institute of Physics, London, UK
Organised jointly by the IOP Applied Physics and Technology Division and DYMAT Association

2014

21–25 July
ICOSOS 11: 11th International Conference on the Structure of Surfaces
University of Warwick, Coventry, UK
Organised by the IOP Thin Films and Surfaces Group

See www.iop.org/conferences for a full list of IOP one-day meetings.

The conferences department provides a professional event-management service to the IOP Groups and Divisions and supports bids to bring international physics events to the UK.

Institute of Physics,
76 Portland Place, London W1B 1NT, UK
Tel +44 (0)20 7470 4800
E-mail conferences@iop.org
Web www.iop.org/conferences