40th Stirling Physics Meeting

Physics begins at 40

Wednesday 21 May 2014, Stirling Management Centre, Stirling, UK

Organised by the Institute of Physics in Scotland.
Supported by SS ERC and the University of Glasgow.

www.stirlingmeeting.org
### Programme

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00–10:00</td>
<td>Registration in Entrance Foyer Stirling Management Centre</td>
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<tr>
<td>9:00–10:00</td>
<td>Coffee and Exhibitions in the Wallace Monument and Uist rooms</td>
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<tr>
<td>10:00–10:10</td>
<td>Welcoming Remarks, Gemmell Millar, IOP in Scotland</td>
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<td>Location: Stirling Management Centre</td>
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<td>Blair Atholl room</td>
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<td>Chair: Prof. Martin Hendry, University of Glasgow</td>
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<td>10:10–10:40</td>
<td>Assessing CfE Physics Qualifications – Entanglement &amp; Enlightenment</td>
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<td>Andrew Shield, Scottish Qualifications Authority</td>
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<tr>
<td>10:40–11:10</td>
<td>Ultrafast Lasers in Scotland: a Light Introduction</td>
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<td>Prof. Derryck Reid, Heriot-Watt University</td>
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<td>11:10–11:25</td>
<td>Comfort break</td>
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<td>11:30–12:00</td>
<td>The Science &amp; Engineering of 3D Printing</td>
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<td>Prof. Phill Dickens, University of Nottingham</td>
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<td>12:00–12:30</td>
<td>New practicals for a new curriculum</td>
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<td>Gregor Steele, Scottish Schools Education Research Centre</td>
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<td>12:30–14:00</td>
<td>Lunch: Stirling Management Centre and time to visit the exhibitions</td>
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<td>in the Wallace Monument and Uist rooms</td>
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<td>14:00–15:15</td>
<td>The Higgs Boson and Beyond</td>
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<td>Dr Victoria Martin, University of Edinburgh</td>
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<td>15:15</td>
<td>Drive Carefully!</td>
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<tr>
<td>15:20–16:00</td>
<td>Exhibition and coffee in Wallace Monument and Uist rooms</td>
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### Location

The meeting will be held in the Blair Atholl Room in the Stirling Management Centre.

### Meals

Refreshments will be served in the Wallace Monument and Uist Rooms alongside the exhibition, and lunch will be served in the Abbeygate restaurant at the Stirling Management Centre.

### Evaluation

Your comments are invaluable in helping the organising committee to evaluate the success of the meeting and to start planning for the 2015 event. Please take time to complete and return the “Comments and Suggestions” sheet in your registration pack. At the end of the meeting there will be boxes for completed forms in the Wallace Monument Room, the Blair Atholl Room and at the registration desk.

### Organising committee 2014

- **Gordon Doig** Education Manager, Institute of Physics in Scotland
- **Rosemary Gallagher** Dunblane High School
- **Iain Glennie** Larkhall Academy
- **Michael McVey (Chair)** Institute of Physics in Scotland
- **Gemmell Millar** Institute of Physics in Scotland
- **Peter Sneddon** University of Glasgow
- **Heather Reid** Glasgow Science Centre
- **Ian Taylor** Institute of Physics in Scotland

### Exhibition

An exhibition will be held in the Wallace Monument and Uist Rooms. The exhibits will be open all day and teachers are encouraged to visit the exhibits during lunchtime and at the start and end of the programme.

Sessions will start promptly at the times indicated in the programme and you should ensure that you are seated in the Blair Atholl Room by **10.00** in the morning and **14.00** in the afternoon.
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Exhibitors
- **bonafide**
  Daniel Roberts
- **Bright Red Publishing**
  John MacPherson
- **Heriot-Watt University**
  Dawn Beddard
- **Institute of Physics**
  Gordon Doig
- **JJM Electronics**
  Alex Munro
- **Leckie & Leckie, Harper Collins**
  Sarah Falconer
- **Schools Laboratory Equipment**
  Wilson Fraser
- **Scientific & Chemical Supplies Ltd**
  Tricia Geraghty
- **SQA**
  Anne Andrew
- **SSERC**
  Gregor Steele
- **STFC**
  Tania Johnston
- **TimStar**
  Lucienne McCallum
- **UK 3B Scientific Ltd**
  Elisabeth Speakman
- **University of Glasgow**
  Peter Sneddon
- **Visions in Education**
  Kim Mitchell

Emergency/evacuation procedures
In the case of emergency use an internal phone to dial 2222 or 01786 467 999 from other phones.

Action in the event of a fire
If you discover a fire:
- activate the alarm systems and telephone the emergency extension 2222
- begin orderly evacuation by the nearest safety route

If you hear the alarm:
- leave the premises by the nearest available exit
- close all doors behind you
- report to the assembly point

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