42nd Stirling Physics Meeting
Physics, the Universe and Everything

Wednesday 18 May 2016, Stirling Court Hotel, Stirling, UK

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

www.stirlingmeeting.org
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Programme

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00–10:00</td>
<td>Registration in Stirling Court Hotel entrance foyer</td>
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<tr>
<td>09:00–10:00</td>
<td>Coffee and exhibitions in the Wallace Monument room</td>
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<tr>
<td>10:00–10:10</td>
<td>Welcoming remarks, Iain Glennie, SSTA</td>
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<td>Location: Stirling Court Hotel Blair Atholl Room</td>
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<td>Chair: Grant McAllister, Scottish Schools Education Research Centre</td>
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<tr>
<td>10:10–10:40</td>
<td>Improving gender balance in subject choice and future careers</td>
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<td>Heather Earnshaw and Charlotte Govan</td>
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<td>10:40–11:10</td>
<td>Enlightenment: Molecules, brains, light and art</td>
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<td>Prof Rory Duncan and Dr Paul Dalgamo, 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>OOMPH – estimations and order of magnitude physics</td>
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<td>Dr Peter H Sneddon and Dr Ross Galloway, Universities of Glasgow and Edinburgh</td>
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<tr>
<td>12:00–12:30</td>
<td>Timing and doppler enhancements to satellite communication</td>
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<td>Dr Mark Dickinson, Vice President (Satellite Communications), Inmarsat</td>
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<tr>
<td>12:30–12:35</td>
<td>Doppler demonstration</td>
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<td>Gregor Steele, Scottish Schools Education Research Centre</td>
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<td>12:35–14:00</td>
<td>Lunch, Stirling Court Hotel Abbegate Restaurant and time to visit the exhibitions in the Wallace Monument room</td>
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<tr>
<td>14:00–15:15</td>
<td>Opening a new window on Einstein’s universe</td>
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<td>Prof Martin Hendry, University of Glasgow</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</td>
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Location

The meeting will be held in the Blair Atholl Room in the Stirling Court Hotel.

Meals

Refreshments will be served in the Wallace Monument Room alongside the exhibition, and lunch will be served in the Abbegate 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 2017 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 2016

- Gordon Doig Education Manager, Institute of Physics in Scotland
- Rosemary Gallagher Dunblane High School
- Iain Glennie SSTA
- David Craig Selex ES UK
- Dick Orr Armadale Academy
- Peter Sneddon University of Glasgow (chair)
- Heather Reid Glasgow Science Centre

Exhibition

An exhibition will be held in the Wallace Monument Room. 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

- Bright Red Publishing
  Sabrina Maguire
- DJB Microtech Ltd
  Derek Walker
- Institute of Physics
  Gordon Doig
- Instruments Direct Services Ltd
  Daniel Roberts
- JJM Electronics
  Alex Munro
- National Museums Scotland
  Sarah Cowie
- Scientific & Chemical Supplies Ltd
  Tricia Geraghty
- SLS Select Education
  Graeme Coleman
- SSERC
  Gregor Steele
- TimStar
  Lucienne McCallum
- 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

Enquiries

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Floorplan