International Nuclear Physics Conference 2019

29 July – 2 August 2019
Scottish Event Campus, Glasgow, UK

http://inpc2019.iopconfs.org
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Contacts

Please read this handbook prior to the event as it includes all of the information you will need while on-site at the conference. If you do have any questions or require further information, please contact a member of the IOP conference organising team.

General enquiries
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Conference chair
Professor David Ireland
University of Glasgow
The IOP organising team will be onsite for the duration of the event and will be located in Halls 1 and 2 at the conference registration desk. Please refer to opening hours on page 9.

If you encounter any problems during the conference, please report them to the registration desk and we will make every effort to rectify the issue as soon as possible.

**Local organising committee**

- Marialuisa Aliotta, University of Edinburgh, UK
- Carlo Barbieri, University of Surrey, UK
- Alison Bruce, University of Brighton, UK
- Christian Diget, University of York, UK
- Kieran Flanagan, University of Manchester, UK
- Bill Gellatly, University of Surrey, UK
- Rodi Herzberg, University of Liverpool, UK
- David Ireland, University of Glasgow, UK
- Peter Jones, University of Birmingham, UK
- Alison Laird, University of York, UK
- Paddy Regan, University of Surrey, UK
- Marcus Scheck, University of the West of Scotland, UK
- John Simpson, STFC Daresbury Laboratory, UK
- Daria Sokhan, University of Glasgow, UK

**Disclaimer**

The Institute of Physics and the Scottish Exhibition Campus (SEC) accept no responsibility for any accident, loss or damage to participants or their property during the event.

**Inclusivity policy**

We operate an open and inclusive policy where all participants can expect to enjoy an environment which encourages the exchange of scientific ideas, and is free from all forms of discrimination, harassment, and bullying.

**Social media**

Follow and join the conversation at #INPC2019
Venue

The conference will be held at the Scottish Event Campus (SEC) from 29 July – 2 August 2019.

Scottish Event Campus (SEC)
Exhibition Way
Glasgow
G3 8YW
UK

Parallel sessions will be held across a range of locations at the SEC. Please refer to the programme overview included in your welcome pack, which will be given to you on arrival at the conference. The central meeting point is in Halls 1 and 2.
Travel

The Scottish Event Campus is located just outside Glasgow city centre in the west-end. The campus is accessible by numerous transport options.

Getting to the SEC Campus …..

…. from Glasgow Airport

Airport buses run from the airport to Glasgow city centre every 10 minutes, 24 hours a day, and take approximately 25 minutes.

The 747 AirLink service operates via Renfrew, Braehead, Partick, Kelvingrove Art Gallery, Charing Cross and the city centre. For more information on times and fares please visit the Scottish Citylink website.

Glasgow Airport Taxis are located immediately outside the terminal building or can also be booked by calling +44 (0) 141 889 1813. A taxi from the airport to the SEC will cost £25 -£30.

The airport also has an SPT Travel Desk, located at Domestic Arrivals (Check-in), where staff can provide you with details of buses and taxis.

….from Glasgow Central Station and Queen Street Station

Glasgow has the largest rail network in the UK outside London. Glasgow’s Central station is connected with every city in the UK, while Queen Street station serves central and northern Scotland.

Once in the city centre, the SEC is a five-minute taxi or short train ride from Glasgow Central station. The SEC has its own dedicated railway station Exhibition Centre. There are six trains an hour (around every 10 minutes) from Glasgow Central station, departing from Platform 17 (low level).

If arriving at Queen Street, you will need to walk or get a bus to Glasgow Central to continue your journey by train.

For more information contact National Rail Enquiries (tel: +44 (0)8457 484950).
.... from Buchanan bus station or George Square

Coach operators run services to Glasgow’s Buchanan Bus Station from throughout the UK. Visit Traveline Scotland for details.

The Riversider 100 service operates from George Square in Glasgow city centre directly to the SEC. The timetable for this service is available here.

The X19 Stagecoach service operates near to the Scottish Event Campus, stopping on Finnieston Street only a few minutes’ walk from the venue. X19 Stagecoach timetable

For further information, visit the website.

Parking

The multi-storey is operated by City Parking LLP. A map and directions are here. Onsite pay machines are on the ground floor, or level 2 (walkway level) of the car park. Payment can be made by cash or credit/debit card on arrival or before departure.

Tariff Rates in the multi-storey Monday to Sunday are:

- 0-1 hour £5.50
- 1-12 hours £11
- 12-13 hours £16
- 13-24 Hours £22

Further information is available from the operator’s website.

The multi-storey has a height restriction of 2m. Drivers with vehicles over 2m should report to the Gatehouse to the west of the campus (accessed via Stobcross Road) in the first instance and you will be directed to an available space.

Please note that residential parking cannot be accommodated at the SEC.

Taxis

Glasgow Taxis operate 5-seater "black cabs" in and around the city and can be flagged down on the street, if there light is on. Alternatively call +44 (0) 141 429 70 70 to book.

Accommodation

Accommodation for the conference has been managed by the Glasgow City Marketing Bureau. For more information, telephone +44 (0) 141 566 0807 or email conventions@glasgowconventionbureau.com

If you have not already secured your accommodation, please contact the convention bureau or try one of the following websites:

- www.lastminute.com
- www.booking.com
Programme

The full programme can be found online at inpc2019.iopconfs.org

Registration

Registration will be held in Halls 1 and 2 and will be staffed at the times listed below. Outside of these times, and only in the case of an emergency, please telephone +44 (0)7881 923 142.

On arrival at the conference, all participants will receive a welcome pack which includes a pen and pad, a copy of the conference magazine with the programme overview and a re-usable water bottle. Participants who have booked to attend an excursion will also receive their ticket(s). There are also guest tickets for the social programmes.

You will also receive a badge which you must wear at all times to help with security and to enable you to identify fellow participants. Lost or replacement badges can be obtained from the registration desk but are charged at £2.50. On departure, please return your badge to the conference registration desk to be recycled.

Registration opening times:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Sunday</td>
<td>14:00-19:00</td>
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<tr>
<td>Monday</td>
<td>08:00-19:00</td>
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<td>Tuesday</td>
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<td>Thursday</td>
<td>08:30-18:00</td>
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<tr>
<td>Friday</td>
<td>09:00-15:30</td>
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</table>

Catering

The registration fee includes refreshments and lunch (except on Friday when lunch isn’t included) and the social programme (see page 10).

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Sunday 28 July</td>
<td>Welcome reception</td>
<td>18:00-19:00</td>
<td>Halls 1 and 2</td>
</tr>
<tr>
<td>Monday 29 July</td>
<td>Coffee break</td>
<td>10:30-11:00</td>
<td>Halls 1 and 2</td>
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<td></td>
<td>Lunch</td>
<td>12:30-13:30</td>
<td>Halls 1 and 2</td>
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<tr>
<td></td>
<td>Tea break</td>
<td>15:10-15:40</td>
<td>Halls 1 and 2</td>
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<tr>
<td></td>
<td>Civic reception</td>
<td>19:00-18:00</td>
<td>Glasgow Science Centre</td>
</tr>
<tr>
<td>Tuesday 30 July</td>
<td>Coffee break</td>
<td>10:30-11:00</td>
<td>Halls 1 and 2</td>
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<tr>
<td>Time</td>
<td>Activity</td>
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<td>12:30-13:30</td>
<td>Lunch</td>
<td>Halls 1 and 2</td>
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<tr>
<td>15:10-15:40</td>
<td>Tea break</td>
<td>Halls 1 and 2</td>
<td></td>
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<tr>
<td>17:20-18:30</td>
<td>Exhibitor reception</td>
<td>Halls 1 and 2</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee break</td>
<td>Halls 1 and 2</td>
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<td>12:30-13:30</td>
<td>Lunch</td>
<td>Halls 1 and 2</td>
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<td>15:10-15:40</td>
<td>Tea break</td>
<td>Halls 1 and 2</td>
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<tr>
<td>19:00-23:30</td>
<td>Conference dinner</td>
<td>Merchant Square</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee break</td>
<td>Halls 1 and 2</td>
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To avoid wastage, catering has been pre-booked based on the days that participants indicated their attendance when registering for the conference.

Participants with dietary requirements are asked to notify the conference office by email prior to their arrival. 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. Please email claire.garland@iop.org if you have any queries.

**Social programme**

The social programme is included in the registration fee, but pre-booking is required. Please check your confirmation email to see which events have been booked.

**Welcome reception**

A welcome reception will be held on Sunday 28 July from 18:00 – 19:00 in Halls 1 and 2 at the Scottish Event Campus.

**Civic reception**

A Civic reception will be held at the Glasgow Science Centre on Monday 29 July from 19:00 – 20:00.

The Glasgow Science Centre is approximately 5 minutes’ walk from the SEC (located on the opposite side of the River Clyde).

Glasgow Science Centre  
50 Pacific Quay  
Glasgow  
G51 1EA
During the reception, participants will be able to visit three floors of interactive exhibits as follows:-

- **Floor 1: Question of Perception**: An interactive celebration of popular illusions and parlour tricks exploring the science of how and why our brains are so easily fooled.
- **Floor 2: Powering the Future**: This exhibition tells the stories behind energy extraction, conversion, distribution and use. It conveys how resources are currently used to power our modern lives and the challenges we face in order to secure reliable supplies, control emissions and ensure affordability.
- **Floor 3: Body Works**: Body Works is a ‘hands-on’ exhibition where you’ll have the opportunity to look at the science behind health and well-being, while also burning some energy in the giant hamster wheel, perform a virtual autopsy and test your reaction times.

For further information, visit [www.glasgowsciencecentre.org/visit](http://www.glasgowsciencecentre.org/visit)

**Exhibitor reception**

A cocktail reception will be held on Tuesday 30 July from 17:20 – 19:00 in Halls 1 and 2. The reception will be followed by a Public Lecture given by Professor Jim Al-Khalili, a theoretical nuclear physicist, author and broadcaster. For more information, please see page13.

**Conference dinner**

The conference dinner will be held on Thursday 1 August from 19:00 – 23:30 at Merchant Square, which is located on the corner of Candleriggs and Bell Street, Glasgow G1 1LE. The conference dinner will include a buffet with wine, plus the opportunity to take part in a Ceilidh, a traditional Scottish dance. Merchant Square is located approximately 2 miles from the SEC. Participants are expected to make their own travel arrangements.

**Excursions**

The following excursions will be held on the afternoon of Wednesday 31 July. Pre-booking is required.

**Auchentoshan Distillery**

Auchentoshan Distillery, located just west of Glasgow, is one of the six Lowland distilleries in Scotland and its whisky has won multiple awards. The tour round this large distillery takes you through all the stages of whisky-making and culminates in a tasting.

**Practicalities:**

- 25min drive to Auchentoshan
- 60min tour
- Total excursion time: 2 hrs
- Coach pick up time at Scottish Event Campus: 14:30
- Coach departs Auchentoshan Distillery: 16:30
Cruise on Loch Lomond - Fully booked

Loch Lomond known as the Queen of Scottish Lochs is the largest expanse of fresh water in Great Britain measuring 23 miles long and 5 miles wide, and is Scotland’s third deepest Loch at 636 feet deep. The Loch, one of the most beautiful lakes in Scotland, spans the boundary between the Highlands and the Scottish Lowland. The excursion sets off on the Silver Dolphin from Balloch, a village on the southern-most point of the loch and the cruise includes a short stop at Luss, a picturesque, historic village about half-way up the western shore.

Practicalities:

- 40min drive to Balloch
- 4hr Cruise
- Total excursion time: 6 hrs
- Coach pick up time at Scottish Event Campus: 13:00
- Coach departs Balloch: 18:15

Tour of Stirling Castle

Stirling Castle, located in Stirling, is one of the largest and most important castles in Scotland, both historically and architecturally. The castle sits atop Castle Hill, an intrusive crag, which forms part of the Stirling Sill geological formation. It is surrounded on three sides by steep cliffs, giving it a strong defensive position. Its strategic location, guarding what was, until the 1890s, the farthest downstream crossing of the River Forth, has made it an important fortification in the region from the earliest times. Most of the principal buildings of the castle date from the fifteenth and sixteenth centuries. A few structures of the fourteenth century remain, while the outer defences fronting the town date from the early eighteenth century.

Before the union with England, Stirling Castle was also one of the most used of the many Scottish royal residences, very much a palace as well as a fortress. Several Scottish Kings and Queens have been crowned at Stirling, including Mary, Queen of Scots, in 1542, and others were born or died there.

Practicalities:

- 40min drive to Stirling
- 90min tour of the castle
- 60min free time in Stirling
- Total excursion time: 4 hrs
- Coach pick up time at Scottish Event Campus: 13:15
- Coach departs Stirling Castle: 17:15
Whisky Tasting

In 2018, Scotland exported over 1.25 billion bottles of whisky to the rest of the world. How is it that a cold, wet country at the edge of Europe with a population smaller than that of New York, London or Tokyo produces a drink that can be found in any bar on the planet? In this event, we will be sampling 6 different whiskies from around Scotland that will illustrate how the production and ageing processes affect its taste. Specifically we’ll look at the effects of maturing whisky in oak casks that have previously held sherry or bourbon, and the effects of using peat to dry the barley prior to fermentation. If you have never tasted scotch malt whisky before, or just want to taste six of the finest distilled liquors on the planet, then please come along and join us.

The tasting will be run by Professor Malcolm McMahon from the School of Physics & Astronomy at The University of Edinburgh. It will be held at the SEC.

Onsite Scottish Event Campus in Boisdale room – 13.30 – 15:00

Outreach programme

Public lecture

A Public Lecture will be given by Professor Jim Al-Khalili on Tuesday 30 July. The lecture titled ‘Nuclear Physics and the Making of the Modern Periodic Table’ will be held in the Clyde Auditorium from 19:15 – 20:15.

Professor Jim Al-Khalili is theoretical nuclear physicist, author and broadcaster. Since 2005, he has held a joint chair in physics and in the public engagement in science at the University of Surrey. He received his PhD in nuclear reaction theory in 1989 from Surrey before working as an SERC Postdoctoral Fellow at UCL before returning to Surrey. In 1994, he was awarded a five-year EPSRC Advanced Research Fellowship before being appointed as a permanent member of staff in 1999.

Jim has written 11 books, between them translated into twenty-three languages. His book, Pathfinders, was shortlisted for the Warwick Prize in 2013, and more recently, Life on the Edge: the coming of age of quantum biology was shortlisted for the 2015 Royal Society Winton Prize. He is a regular presenter of TV science documentaries, including the Bafta nominated Chemistry: A Volatile History and Shock and Awe: The Story of Electricity. For the past seven years he has presented the award-winning weekly BBC Radio 4 programme, The Life Scientific.

Jim is president elect of the British Science Association, and will be taking up office in September of this year. He is a current board member of CaSE (The Campaign for Science and Engineering), a trustee of the Institute of Physics and on the judging panel of the Queen Elizabeth Prize for Engineering. As an advocate for secular humanism, he served as president of Humanists UK for three years. He is a recipient of the Royal Society Michael Faraday medal, the Institute of Physics Kelvin Medal and the Stephen Hawking Medal for Science Communication. He received an OBE in 2007 for ‘services to science’.
INPC Outreach event

Our nuclear science exhibit presents cutting edge research being undertaken both in the UK and internationally, exploring the production of elements in our universe, fundamental nuclear physics, their impact on everyday life and even the structure of subatomic particles.

Join us as we explode stars, probe inside the proton, and explain how we investigate these extraordinary processes, from sites as large as a galaxy to smaller than the nucleus of an atom.

Through a variety of interactive installations, multimedia presentations and expert discussion, researchers in these fields hope to give you an insight into what makes these scientific endeavours so interesting, and so important.

This outreach event will run before the public lecture by Professor Jim Al-Khalili on Tuesday 30th July, as well as on the dedicated outreach day on Wednesday 31st July.

Admission to the outreach events is free and suitable for all ages.

Exhibition

An exhibition will be held alongside the conference from Monday 29 – Wednesday 31 July. The list of exhibitors can be found below. We encourage all participants to take the time to visit the exhibitors to find out about their services and how you may benefit from their products.

- American Physical Society
- Hamamatsu Photonics
- Hilger Crystals
- John Caunt Scientific Ltd
- IOP Publishing
- Instrumentation Technologies
- Micron Semiconductor Ltd
- Mirion Technologies (Canberra UK) Ltd
- ORTEC
- Springer Nature
- Sydor Technologies
- Wiener Power Electronics GmbH

The exhibition is open to day visitors. For more information, email claire.garland@iop.org.

Information for presenters

Speakers are requested to bring their presentation on a USB in .pdf or .ppt format and hand it to the venue technician based in speaker preview room no later than the break preceding your session. The technician will load, validate and distribute the presentation to the appropriate lecture theatre via the computer network. To optimise compatibility, particularly for the inclusion of multimedia components, speakers should include the original files so that it can be re-embedded if necessary.
The speaker preview room will be the **Ness Room (M2)** and will be available during the following times:

**Sunday**  
14:00 - 17:00

**Monday**  
07:30 - 17:30

**Tuesday**  
08:00 - 17:30

**Wednesday**  
08:00 - 13:00

**Thursday**  
08:00 - 17:30

**Friday**  
08:00 - 13:00

Speakers should arrive into the allocated meeting room at least 10 minutes before the session commences to meet the chairperson. Technicians will be available in each lecture theatre to support speakers.

The electrical current in the UK is 230v AC and 3 pin plug sockets. If you need an adapter, please bring one with you.

Direct connection of personal laptops (with set up in the break prior to the corresponding session) is an acceptable, but not preferred alternative, and must be agreed with the stage technician in advance. Mac users should ensure that they bring the correct connection cable (VGA) with them.

**Information for chairs**

Chairs should be in the allocated lecture theatres approximately 10 minutes prior to the start of the session in order to meet with the speakers and the technician. All speakers should have visited speaker preview (room M2) prior to the session to pre-load their presentations.

The role of the chair person is to ensure the strict running of the programme and to facilitate questions. A traffic light system will be available in each lecture theatre to support time-keeping of each individual talk. The timer triggers green, yellow, and red lights programmed in sequences from 15 seconds to 90 minutes. Sound cues counting up or down can beep manually or automatically with light changes.

- Plenary talks  
  30 minutes (20 + 10 minutes for questions)
- Invited talks  
  25 minutes (20 + 5 minutes for questions)
- Contributed talks  
  15 minutes (12 + 3 minutes for questions)

**Poster presentations**

Posters will be on display throughout the conference in Halls 1 and 2 with three dedicated poster sessions as scheduled in the programme (A, B and C). Presenters are asked to be next to their posters in their dedicated session.

- Poster session A  
  Monday 29 July  
  17:20 – 18:30
- Poster session B  
  Tuesday 30 July  
  17:20 – 18:30
- Poster session C  
  Thursday 1 August  
  17:20 – 18:30
Posters can be mounted from 08:30 on Monday 29 July; please refer to the programme for your allocated poster number. All posters should be removed by 13:30 on Friday. Any poster not removed at the correct time will be taken down by the conference team and recycled.

Boards are 2340mm tall by 946mm wide. Posters should be prepared no larger than A0 in size (84.1 x 118.9 cm / 33.1 x 46.8 inches), in a portrait format. If your poster does not fit within these dimensions, we cannot guarantee it will be displayed.

Fixing material will be supplied which is adequate for laminated posters. Fabric posters may be harder to mount.

Poster prizes will be awarded to the best student posters.

**On-site amenities**

**Cloakroom**

The cloakroom is located on the main concourse and will be open during the event. Items can be left at the cloakroom for a fee of £2 per item, per day. Please note that items cannot be left overnight. On Friday, the cloakroom will be provided free of charge.

**ATM (cash) machines**

There are several cash machines located on the concourse. Participants are encouraged to use the Clydebank note machines to avoid charges.

**Post Box**

A Royal Mail post box is located externally, in front of the Clyde Auditorium. UK and international stamps are available from the shop situated on the main concourse.

**Information and business centre**

There is well-equipped information and business centre for visitors at the SEC. Available services include:

- Photocopying
- Printing
- Scanning
- Faxing
- Gift shop

**Baby changing facilities**

There are two baby changing rooms at the SEC, one is on the main concourse adjacent to the ladies toilets and the other is at the west end of the venue next to the toilets.
Prayer room

There is no specific Prayer room at the SEC, but the Medical Centre can offer visitors a quiet room to use (subject to availability).

Shop

McColls, situated on the main concourse, sells a wide range of products including newspapers and magazines, snack, toiletries, stamps and mobile phone top-ups.

Vending machines

Drink vending machines are available at various locations throughout the SEC.

Clydebuilt Bar & Kitchen

Clydebuilt Bar & Kitchen is conveniently located at the Front Entrance of the SEC serving food, speciality coffees and alcoholic and soft beverages.

Opening times:

<table>
<thead>
<tr>
<th>Date</th>
<th>Times</th>
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<tbody>
<tr>
<td>Sunday 28 July</td>
<td>07:30 – 18:00</td>
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<tr>
<td>Monday 29 July</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Wednesday 31 July</td>
<td>07:30 – 18:00</td>
</tr>
<tr>
<td>Thursday 1 August</td>
<td>08:00 – 19:00</td>
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<tr>
<td>Friday 2 August</td>
<td>08:00 – 19:00</td>
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</tbody>
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For more information, visit [www.clydebuiltbarandkitchen.co.uk/](http://www.clydebuiltbarandkitchen.co.uk/)

General information

Dress code

The dress code for the conference is smart casual.

Currency

- Britain’s currency is the pound sterling (£) - see [www.xe.com](http://www.xe.com) for currency converters.
- Scottish banks issue their own notes with exactly the same value as those issued by the Bank of England and they are legal tender in all parts of mainland UK.
- Value Added Tax (VAT) - is charged on all purchases currently at a rate of 20%, people travelling to the UK on business may be entitled to reclaim the tax charged on event expenses.
- Tipping: There are no hard and fast rules for tipping in Glasgow. If you are happy with the service, a 10-15% tip is customary, particularly in restaurants or cafés. Tipping in bars is not expected. For taxi fares, it’s usual to round up to the nearest pound (£).
Electricity

Electricity - British electrical standards are 50Hz 230 volts, so some North American and European electrical devices may require converters; all will require plug adapters. A small number of adapters are available to purchase from the registration desk.

Time Zone

Glasgow’s time zone is Greenwich Mean Time (GMT) or one hour ahead of GMT, known as British Summer Time (BST), during the summer months.

Driving in Glasgow

- Driving is on the left hand side of the road. To drive in Scotland, you must have a valid driving licence. A foreign licence is valid in the UK for up to 12 months.
- It is compulsory to wear seat belts in the front seat and if your car has seat belts in the back, they must also be worn.
- The national speed limit is 70 mph (112 km/h) on motorways, 70 mph (112 km/h) on dual carriageways, 60 mph (96 km/h) on single carriageways and generally 30 mph (48 km/h) in areas with street lighting (restricted roads).
- Scotland operates a zero policy with regards to drinking and driving.

Weather

July and August are normally the warmest months in Scotland, with average temperatures ranging from approximately 15°C (59°F) to 17°C (63 °F). The weather in the UK can however, be unpredictable so we would recommend participants carry a light waterproof jacket or umbrella and check with a weather app. For example www.wunderground.com.

Medical services
(see Health and Safety on page 19)

- Medical services - Some medicines are available over the counter from pharmacists. For medical advice, try NHS direct by telephone on 0845 4647 (24-hour within the UK) or www.nhs.uk
- Emergencies - Visitors should be aware of their personal safety. In an emergency, the police, fire or ambulance services can be reached from any phone by dialling 999.

Telephone

The UK country code is 44, while Glasgow landlines start with a 141 area code, followed by a 7 digit number. To call abroad, dial 00 before the area code.
Health and safety

First aid

If you fall ill or injure yourself during the conference, please report the incident to a member of staff or visit the Medical Office located in the East end of the Concourse, adjacent to the Information Desk. If medical assistance is required, the Nurse/First Aider should be contacted immediately using extension 290 or by speaking with a member of SEC staff.

Participants with pre-existing medical conditions who may require assistance should make themselves known to the conference registration desk.

In case of serious injury, paramedics will be called. All three emergency services, fire, ambulance and police, can be contacted by dialling 999 from any telephone.

Safety and emergency evacuation procedures

In the unlikely event of a fire, SEC has a comprehensive fire detection system which is complemented by sprinkler protection. In the Exhibition Halls fire hose reels are installed at various locations below prominent signs. Alarm points are located at or near fire exits and vehicle doors. The automatic alarm is activated if the smoke or heat detectors come into operation or if any fire hose reels are used. The fire alarm takes the form of a pre-recorded announcement over the Public Address System.

If you discover a fire:

1. Break the glass on the nearest manual call point.
2. Telephone the Security Control (extension 290), giving the location of the fire, or inform a member of SEC staff in the Hall.
3. Advise other persons in the vicinity of the emergency.
4. Do not attempt to extinguish the fire unless it is safe to do so and you are competent to use a fire extinguisher.
5. As soon as the instruction to evacuate the Centre is broadcast, you must leave the premises by the nearest available exit. Follow the directions from Stewards moving to and remaining at Fire Assembly areas near the East or West entrance.
6. You must not attempt to return to the Centre until the Senior Officer in charge of the fire brigade detachment says that it is safe to do so.

Smoking

In accordance with government legislation smoking is not permitted in any building, temporary enclosed structure or substantially enclosed space outside of buildings.

Payment

The organiser reserves the right to refuse admission to any participant who has failed to pay their registration fee prior to the event. Our payment terms are strictly 30 days.
IOP membership

Membership of the Institute is available to anyone who has an interest in the subject and its future. The Institute actively promotes physics to external audiences, increasing awareness of the importance of physics in government, education and industry. Our members come from diverse backgrounds and follow all kinds of different careers; many are directly involved in physics but as many are using their physics training in a wide range of businesses. For more information, and to join visit www.iop.org/membership

Sustainability

The Institute of Physics recognises its environmental responsibilities and is committed to contributing to the reduction of local, national and global environmental damage. As a result, the IOP is providing participants with reusable plastic bottles, pads made from recycled paper and also limiting the amount of paper by providing digital versions of the programme, handbook and abstract book.

The SEC supports the Trees for Life Campaign and is working to restore Scotland’s Caledonian Forest by planting trees. This initiative is supported by the conference.

Health and wellbeing

Yoga

There will be the opportunity to participate in a yoga session on Tuesday 30 July and Thursday 1 August at 07:30 in Room M1. For more information, download the conference app or visit the registration desk. Yoga mats will be provided; however, participants are also welcome to bring their own.

Step free challenge

Get fit at INPC while taking part in the conference step challenge!

The participant who accumulates the most steps on Tuesday 30 July from 08:00 – 19:00 will win a Sports voucher worth £50 kindly supported by the Scottish Event Campus!

Here’s how to take part:

- Download a pedometer app on your smartphone, or alternatively use your own pedometer
- Follow the official INPC Twitter account #INPC2019
- Take a screen shot or photo of the total number of steps you have accumulated and tweet it to #INPC2019 by 19:30 on Tuesday
- Tag @SECglasgow including the hashtags #INPC2019 and #healthyvenue
- The person with the highest number of steps will win a Sports voucher worth £50. Winner will be contacted via Twitter on Thursday 1 August. The voucher will be presented to the winner on Friday 2 August.
Conference app

INPC 2019 will have its own dedicated conference mobile app with information related to the programme, exhibitors and sponsors. There will also be daily notifications to keep you up to date with each day’s schedule. To opt in, please follow the instructions included in your confirmation email.

International advisory committee

- Nicolas Alamanos, CEA Saclay, France
- Ani Aprahamian, University of Notre Dame, USA
- Almudena Arcones, TU Darmstadt and GSI, Germany
- Thomas Aumann, Technische Universität Darmstadt, Germany
- Jonathan Bagger, TRIUMF, Canada
- Yorick Blumenfeld, Institut de Physique Nucléaire Orsay, France
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- Rolf Ent, Jefferson Lab, USA
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• Angels Ramos, University of Barcelona and Institute of Cosmos Sciences, Spain
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• Kathrin Wimmer, University of Tokyo, Japan
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Site plan