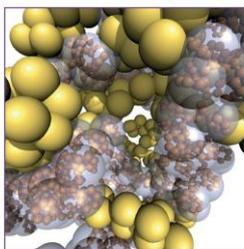


# Physical Aspects of Polymer Science

**8–10 September 2015**  
**Manchester Institute of Biotechnology,**  
**Manchester, UK**

Organised by the IOP Polymer Physics Group

<http://paps15.iopconfs.org>



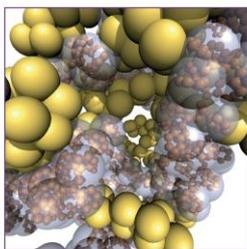
# Physical Aspects of Polymer Science

**8–10 September 2015**  
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## Contact information

If you have any questions, please contact the conferences team by telephone or email. There will be at least two IOP representatives on-site throughout the conference in case you have any queries.

Joanne Hemstock  
Conferences Organiser - Institute of Physics  
E-mail: [joanne.hemstock@iop.org](mailto:joanne.hemstock@iop.org)  
Direct tel: +44 (0)20 7470 4890  
Mobile: +44 (0)7884 268232

Conferences team  
E-mail: [conferences@iop.org](mailto:conferences@iop.org)  
Tel: +44 (0)20 7470 4800

*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 any issues as soon as possible.*

## Organised by

**IOP** | Institute of Physics  
**Polymer Physics Group**

## Local organiser

Prof. Aline F. Miller FRSC, Professor of Biomolecular Engineering, Manchester Institute of Biotechnology, UK  
E-mail: [aline.miller@manchester.ac.uk](mailto:aline.miller@manchester.ac.uk)

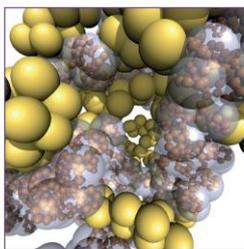
## Programme committee

Anthony Higgins, Swansea University  
Jon Howse, University of Sheffield  
Aline Miller, Manchester Institute of Biotechnology/University of Manchester  
Ann Terry, Rutherford Appleton Laboratory

IOP Polymer Physics Group committee details can be found online at  
<http://www.iop.org/activity/groups/subject/pol>

## Disclaimer

The Institute of Physics, Manchester Institute of Biotechnology, University of Manchester and their approved representatives cannot take responsibility for any accident, loss or damage to participants or their property during the conference.



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## Sponsors

### Gold sponsor

#### AkzoNobel



AkzoNobel is a leading global paints and coatings company and a major producer of specialty chemicals, with leading market positions and brands in countries around the world. We operate in a number of important market segments ranging from buildings and infrastructure to transport, industrial and consumer goods. We're also the sector leader in sustainability and are number one in the renowned Dow Jones Sustainability Index. In practical terms, that means our sustainable solutions are in your lives, and those of your friends and family, every day. We're the people that make it possible for you to do what you need to do.

Where your ideas go far [www.akzonobel.com/careers](http://www.akzonobel.com/careers)

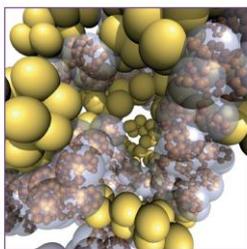
### Sponsor

#### Polymers



Polymers is an international, open access journal published by MDPI. It is providing an advanced forum for the science of polymer research, including polymer chemistry, polymer physics and applications. It aims to serve the scientific community and to provide cutting-edge content helpful for their research.

Articles can be downloaded freely at [www.mdpi.com/journal/polymers](http://www.mdpi.com/journal/polymers)



# Physical Aspects of Polymer Science

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**Manchester, UK**  
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## Location

The conference will be held at the Manchester Institute of Biotechnology (MIB). The venue is located within the John Garside Building on the University of Manchester Sackville Street campus. The building can be accessed from Sackville Street and Princess Street. Delegates should enter the building via the Sackville Street entrance.

## Manchester Institute of Biotechnology

University of Manchester (John Garside Building)  
131 Princess Street  
Manchester  
M1 7DN  
UK

Telephone: +44 (0)161 306 5200

For information about the venue, please visit their website: [www.mib.ac.uk](http://www.mib.ac.uk)

## Accommodation

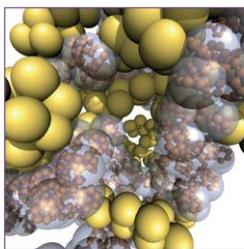
Visit Manchester is the official accommodation provider for the Physical Aspects of Polymer Science 2015 conference. They have secured rooms with specially negotiated delegate rates at two hotels close to the conference venue.

All rooms are held on an on-line system, allowing you to book and secure your own accommodation using either pro-forma invoices or credit/debit cards. If you require any assistance with your reservation, support is available via the Visit Manchester Accommodation Booking Team.

To book accommodation for this event, please use the following link: <https://resweb.passkey.com/go/PAPS2015>

Negotiated delegate rates and rooms will be held up to **10 August 2015**. If you require accommodation beyond this date or you have any queries about the website, please contact Visit Manchester via the contact details below.

For all accommodation enquiries please call the Accommodation Booking Team on +44 (0) 161 238 4563 / 4514 or email: [abs@visitmanchester.com](mailto:abs@visitmanchester.com)



# Physical Aspects of Polymer Science

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Manchester Institute of Biotechnology  
Manchester, UK

<http://paps15.iopconfs.org>

## Registration

Registration will be located in the Manchester Institute of Biotechnology Atrium and will be open during the following times:

Date	Times	Location
Tuesday 8 September	11:30 – 18:30	Manchester Institute of Biotechnology Atrium
Wednesday 9 September	08:00 – 18:30	Manchester Institute of Biotechnology Atrium
Thursday 10 September	08:30 – 14:00	Manchester Institute of Biotechnology Atrium

On arrival, each participant will receive a delegate pack containing a pen and pad, programme and a lanyard badge. The abstract book will be in digital format only and will be available to download from the website at least one week prior to the start of the event. Abstracts will also be available in the [IOP Conferences](#) app.

Please wear your badge at all times because this will help with security, catering and enable you to identify your fellow delegates. Replacement badges can be issued at the registration desk.

## Payment

The organiser reserves the right to refuse admission to any participants who has failed to pay their registration fee in full prior to the start of the event.

## Notice board

A notice board will be placed near the registration desk. Participants should check the board for the latest programme updates and conference information.

## Manchester Institute of Biotechnology facilities

### Internet and ICT

**Please note that there is no WiFi available to delegates at MIB.** If you require temporary use of the internet to access your presentation material or in the case of an emergency, please contact the IOP registration desk.

### Cloakroom

The venue does not facilitate a manned cloakroom. Coat rails will be available in Atrium. A luggage storage room will also be available throughout the conference, please visit the IOP registration desk should you wish to make use of this storage facility. All goods left in these areas are left at the owner's risk and neither the IOP nor the Manchester Institute of Biotechnology accept any liability for any loss or damage to personal goods.

### Local amenities

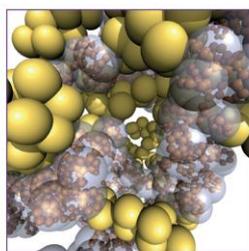
The MIB is located within Manchester city centre where you will find an array of high street shops and local amenities. The closest ATM (cash machine) and shops can be found along Oxford Road. Exit the venue onto Princess Street and walk towards Charles Street, turn left on Charles Street and Oxford Road crosses at the bottom of Charles Street.

### Prayer room

There is a room in the MIB reception area which can be used by delegates. Anyone wishing to make use of this facility should contact the IOP registration desk on arrival.

### Catering facilities

There is an onsite café at MIB which is open until 15:30 each day. There are also vending machines in the café area.



# Physical Aspects of Polymer Science

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Manchester, UK  
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## Catering

Refreshments, lunches and dinners are included in the registration fee and are served at set times during the conference programme.

Day	Times	Location
<b>Tuesday 8 September</b>		
Arrival refreshments	11:30 – 12:30	MIB Atrium
Lunch	12:30 – 13:20	MIB Atrium
Afternoon refreshments	15:35 – 16:00	MIB Atrium
Drinks reception	17:45 – 18:30	MIB Atrium
Buffet dinner	18:30 – 20:00	MIB Atrium
<b>Wednesday 9 September</b>		
Arrival refreshments	08:00 – 09:00	MIB Atrium
Mid-morning refreshments	10:45 – 11:10	MIB Atrium
Lunch	13:00 – 14:15	MIB Atrium
Afternoon refreshments	15:55 – 16:45	MIB Atrium
Conference dinner	19:00 – 20:00	Museum of Science and Industry (MOSI)
<b>Thursday 10 September</b>		
Arrival refreshments	08:30 – 09:00	MIB Atrium
Mid-morning refreshments	10:45 – 11:10	MIB Atrium
Lunch	13:20 – 14:00	MIB Atrium

## 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.

We are aware that nut allergies in particular present a serious problem to some people. The venue catering team can provide details of the ingredients of any particular dish, but cannot provide assurances that the food has not been cross contaminated with traces of nuts during ingredient processing at manufacturer's site or during food preparation/service on site. For these reasons, we regret we are unable to provide guarantees that any of the food we serve is free from nuts or trace elements. Please email [joanne.hemstock@iop.org](mailto:joanne.hemstock@iop.org) if you have any queries.

## Programme

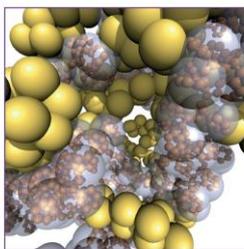
For the latest programme information, please refer to the website at <http://paps15.iopconfs.org/programme>

## IOP Conferences app

An **IOP Conferences App** is available to download via the [Apple App Store](#) or [Google Play](#)

The app will contain all the information you need to make the most of your time at the conference. A personalised programme and abstract search function is included in the app, along with the full conference programme, exhibitor profiles, speaker biographies and venue plans. The app will be updated in the lead up to and during the conference, so please check the app regularly for the latest information.

To download the app just type **IOP Conferences** into the Apple App Store or Google Play.



# Physical Aspects of Polymer Science

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## Social programme

### **Tuesday 8 September – drinks reception and buffet dinner**

A drinks reception will be held alongside the first poster session in the MIB Atrium between 17:45 and 18:30. This will be followed by an informal buffet dinner.

### **Wednesday 9 September - reception and conference dinner – Museum of Science and Industry (MOSI)**

The conference dinner will be held at the Museum of Science and Industry on the evening of Wednesday 9 September. The reception will start at 19:00 and this will be followed by a three course seated dinner.

Museum of Science & Industry (MOSI)

Liverpool Road

Castlefield

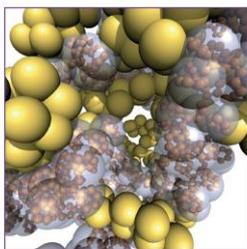
Manchester

M3 4FP

[www.mosi.org.uk](http://www.mosi.org.uk)

Coach transfers from the Manchester Institute of Biotechnology (MIB) will depart from Sackville street outside the Manchester conference centre ([see map](#)) at 18:45.

Return coach transfers will collect from MOSI at approximately 22:30 and will return delegates to the Pendulum Hotel and Ibis Hotel Manchester Princess Street.



# Physical Aspects of Polymer Science

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## Information for presenters

### Oral presentations

Presenters are asked to prepare their talks to match the allocated times which will be rigidly enforced. Presenters should allow time for both a formal presentation and questions within the time allocated in the programme. As a guide, contributed oral presenters should allow 15 minutes for the formal presentation and up to 5 minutes for questions.

The lecture theatre is equipped with the following audio-visual equipment:

- Dual HD data projectors and screens
- PC or laptop (Windows 7)
- Remote mouse/laser pointer
- Lectern and microphone

If you require any additional equipment, please email [joanne.hemstock@iop.org](mailto:joanne.hemstock@iop.org)

Speakers are requested to bring their presentation on a USB memory stick in windows powerpoint format and preload it onto the PC/laptop located in the lecture theatre. Speakers should save their presentation into the appropriate pre-named session folders pre-set on the desktop and files should be saved by speakers surname and initial.

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. Direct connection of personal laptops (with set up in the break prior to the corresponding session) is an acceptable, but not preferred alternative.

The electrical current in the UK is 230 volts AC and 3 pin plug sockets. If you need an adapter, please bring one with you. Adaptors can be purchased from the airport.

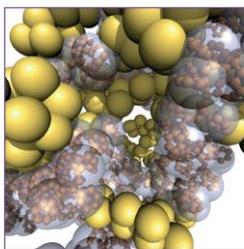
The lecture theatre is reasonably large, so speakers should use a minimum 16-point font size in PowerPoint slides to ensure legibility.

### Poster presenters

Posters will be on display throughout the conference in the MIB Atrium with dedicated poster sessions as scheduled in the programme. During the poster sessions, presenting authors are asked to stand close to their boards to answer questions and facilitate discussions on their work.

If you are presenting a poster please ensure that you display your poster on the board number that matches your poster number in the programme. Posters can be mounted from 11:30 on Tuesday 8 September and must be removed by 14:00 on Thursday 10 September. Fixing material will be supplied.

Posters must be **no larger than A0** in size (118.9 x 84.1cm / 46.8 x 33.1 inches), in a **portrait format**. If your poster does not fit within these dimensions, we cannot guarantee it will be displayed. Posters must be prepared in advance of the conference as it will not be possible to print posters on-site.



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## Safety and security

### Personal property

The Manchester Institute of Biotechnology and the Institute of Physics do not accept responsibility for the loss of or damage to personal property. Visitors are advised to keep personal possessions with them.

### Fire safety

Please ensure that you are familiar with your emergency exit points. The nearest exit route is at the front of the lecture theatre.

If you discover a fire;

1. Raise alarm by operating the red break glass points
2. Leave the area using the nearest marked fire exit route
3. Go to assembly point (courtyard in front of the George Begg building) and stay there awaiting further instruction.

If you hear the fire alarm (continuous signal)

1. Leave the building immediately by the nearest marked fire exit route
2. Go to the assembly point (courtyard in front of the George Begg building) and stay there awaiting further instruction.

- Do not stop to collect personal possessions
- Do not re-enter the building until advised to do so
- Do not use lifts

**The Manchester Institute of Biotechnology fire alarm is tested every Wednesday at 14:00.**

If you are in the building at this time, you do not need to act unless it continues to sound or you are otherwise instructed.

### First aid

In the case of serious injury or illness, please call the nearest first aider (names and contact details on all posters) and the main MIB reception (extn. 65200). For an ambulance, call 9999 on any MIB phone and state the full address of the MIB (131 Princess Street, Manchester, M1 7ND). Out of normal working hours, telephone the Main Security Lodge on 69966.

### Security

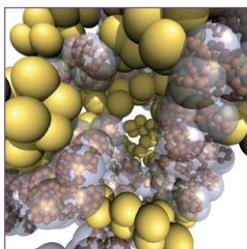
Please note that delegates cannot access the labs and offices areas of MIB. Please wear your conference delegate badge at all times while inside the venue. Reception and security staff are on site during opening hours. If the main MIB reception desk is unmanned then a number to call will be displayed.

### Smoking

In compliance with the current UK legislation, smoking is not permitted within any enclosed area of the venue.

### Behaviour and conduct

Whilst on the site, all guests should show respect that the MIB is a working environment. Delegates should not venture outside the conference areas. Delegates are also asked to wear their conference badges at all times while inside the venue. The Institute of Physics and Manchester Institute of Biotechnology reserve the right to charge in full for loss or damage to the property.



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## Travel

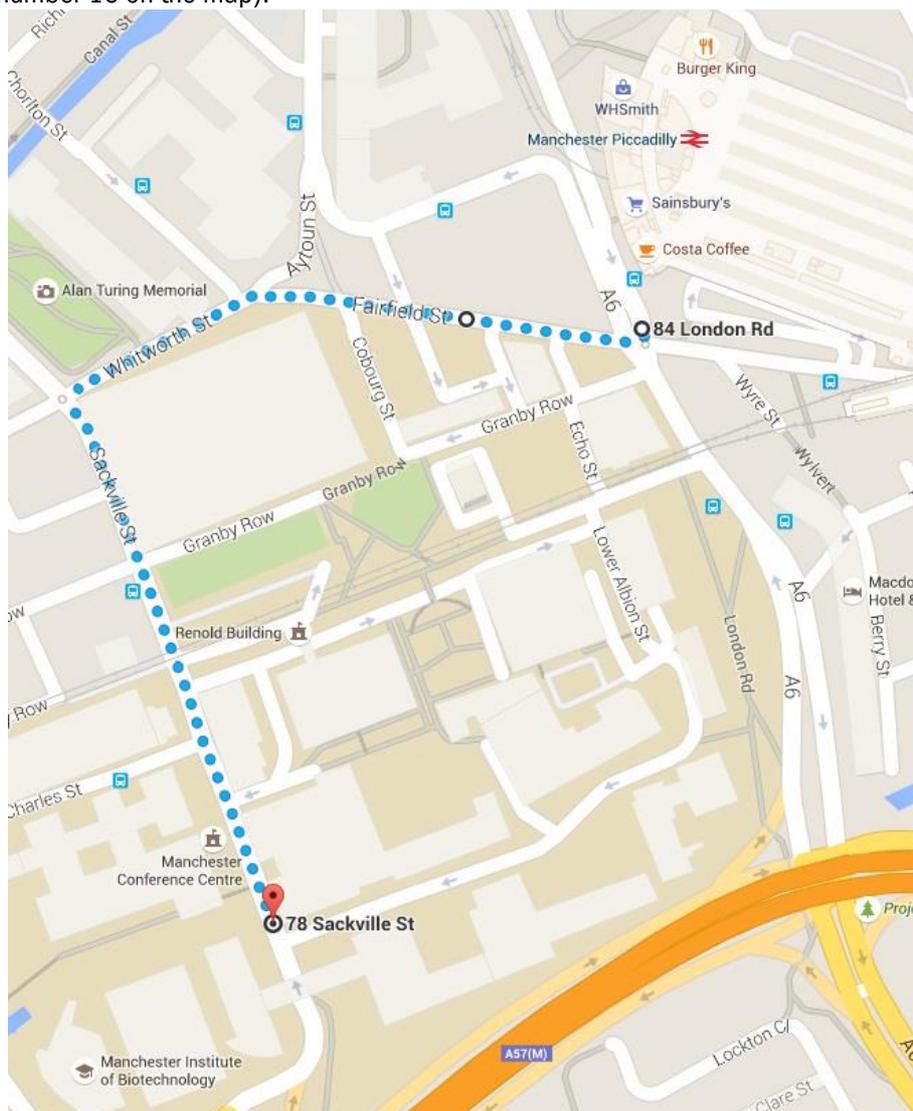
The Manchester Institute of Biotechnology is located in the John Garside Building on the Sackville Street campus of The University of Manchester and is easily accessible from the city centre. It is within a few minutes' walk of the main city railway station, Manchester Piccadilly.

A map of Manchester City Centre can be [downloaded here](#) (PDF, 138KB)

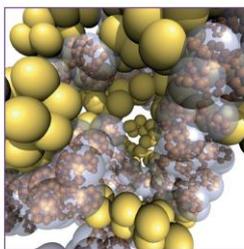
A University campus map can be [downloaded here](#) (PDF, 9MB). The MIB is building number 16.

## Walking directions – Manchester Piccadilly Train Station to Manchester Institute of Biotechnology

Leave the station via the Fairfield Street exit (where the taxi rank is), cross London Road, and walk down Fairfield Street, which is straight ahead of you. Continue down Fairfield Street onto Whitworth Street and turn left down Sackville Street, on your right you will see the Pendulum Hotel and Manchester Conference Centre (no 11 on the campus map). Just past the hotel, there is a slope and steps on the right, between the Pendulum Hotel (11) and the Faraday Tower (no 18 on the campus map). Walk up this slope. You will pass the George Begg building on your left (17 on the campus map), and in front of you will see the John Garside Building and Manchester Institute of Biotechnology (number 16 on the map).



Link for map: <https://goo.gl/maps/lzU5y>



# Physical Aspects of Polymer Science

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## By air

The nearest airport is Manchester Airport. Manchester Airport is one of the largest and busiest in the country. It is located about 10 miles (16km) south of the city centre, about 30 minutes from the University.

The airport has a number of transport links to the city:

- **Train** - The airport's two terminals are linked directly to the city centre by a fast, frequent 24-hour train link to both Piccadilly and Oxford Road stations.
- **Taxi** - A taxi from the airport to the University will cost approximately £20.
- **Bus** - Local buses also run to Sackville Street area of the campus.

Most major airlines fly to and from Manchester. For more information please visit the Manchester Airport website [www.manchesterairport.co.uk](http://www.manchesterairport.co.uk).

## By train

The University of Manchester is located close to both Piccadilly main line station (about two and a half hours from London) and Oxford Road train station, with Victoria train station a little further away. For information, contact National Rail Enquiries ([www.nationalrail.co.uk](http://www.nationalrail.co.uk); +44 (0)8457 484950).

### Piccadilly station to Sackville Street

The Sackville Street area of the campus is within five minutes' walk of Piccadilly Station. Leave the station via the Fairfield Street exit (where the taxi rank is), cross London Road, and walk down Fairfield Street, which is straight ahead of you. Continue down Fairfield Street onto Whitworth Street and turn left down Sackville Street, the MIB John Garside Building is then on your right.

### Victoria station to Sackville Street

Victoria station is about a mile from the Sackville Street area of the campus. The easiest way is to take a Metrolink tram to Piccadilly station and follow the route described above.

### Oxford Road station to Sackville Street

To get to the Sackville Street area of the campus, go down the station approach and cross Oxford Road. Then turn directly right onto Whitworth Street and the campus is about a five-minute walk away.

## By bus and coach

### Coach

National Express ([www.nationalexpress.com/coaches](http://www.nationalexpress.com/coaches)) serves over 1,200 destinations across the UK from the Chorlton Street Coach Station, which is near Piccadilly railway station and a short walk from the University Sackville Street campus. You can contact the Chorlton Street Coach Station by telephone on 08705 808080.

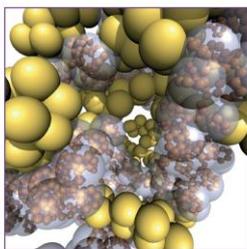
### Directions to Sackville Street campus

Turn right out of Chorlton Street Coach Station onto Chorlton Street and walk to the junction with Whitworth Street. Cross Whitworth Street and the Sackville Street part of the campus is straight ahead.

### Local bus services

Local bus services to the Sackville Street area of the campus include:

- Tram (Metrolink) - various lines to Piccadilly station, which is a short walk away.
- Buses along London Road: 107, 192, 196, 201, 203, 204, 205, 206, 373.
- Bus along Sackville Street: 140.



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For information on bus and tram timetables, services and saver tickets within Greater Manchester ring GMPTE (Greater Manchester Passenger Transport Executive) on 0870 6082608 or visit [www.gmpte.com](http://www.gmpte.com)

## By car

All approach routes for cars travelling here are clearly signposted 'The University of Manchester'. You can plan your route online using one of the free route planners - examples are The AA ([www.theaa.com](http://www.theaa.com)) or The RAC ([www.rac.co.uk](http://www.rac.co.uk)).

For Sackville Street area (following signs for The University of Manchester). **Sat Nav: Sackville St, M1 3BB.**

### M6/M56 (northbound)

- Exit the M6 at J19 taking the third exit at the roundabout onto Chester Road A566.
- Continue straight ahead onto the A50.
- At the major roundabout bear right onto the M56.
- Follow the M56 until it turns into the A5103 signposted for the city centre.
- Take the A5103 into the centre of Manchester until you reach a major roundabout with an overpass.
- Take the third exit at the roundabout onto the Mancunian Way A57 lower level.
- At the next roundabout take the second exit (straight ahead) onto the Mancunian Way A57(M) elevated level for 350m.
- At the next exit, bear left off A57(M) and immediately on the slip road bear right into Sackville Street.
- Take the first left onto Charles Street where you will find a multi-storey car park.

### M62 (westbound)

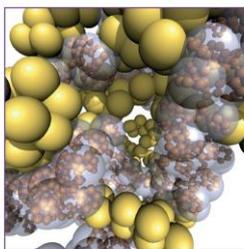
- Take the M62 east to Manchester.
- Exit motorway at J20 following the A627 (M) to Oldham.
- Continue straight ahead onto Broadway A663.
- Bear right onto Oldham Road A62.
- Continue straight ahead onto Portland Street A5103.
- Turn left onto Princess Street.
- Turn left onto Charles Street where you will find a multi-storey car park.

### M62 (eastbound)

- Take the M62 west to Manchester.
- Exit at J12 onto the M602 Eccles bypass.
- Continue straight ahead onto the A57.
- Bear left onto the Mancunian Way A57(M).
- Bear left again onto the A57 and continue straight ahead onto Sackville Street.
- Turn left onto Charles Street where you will find a multi-storey car park.

### M6 (southbound)

- Take the M6 south
- As you approach the outskirts of Manchester continue straight ahead onto the M61.
- Shortly after, continue straight ahead onto the M60.
- Continue straight ahead onto the M62 and bear right onto the M602 Eccles bypass.
- Continue straight ahead onto the A57.
- Bear left onto the Mancunian Way A57(M).
- Bear left onto A57 and continue straight ahead onto Sackville Street.
- Take the second left onto Charles Street where you will find a multi-storey car park.



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## Parking

The multi-storey car park at Charles Street (M1 3BB) offers paid public parking. This car park is open 24 hours a day, 7 days per week.

## Taxis

StreetCars Manchester offer a 24/7 private hire taxi service. For more information and booking details, visit [www.streetcarsmanchester.co.uk](http://www.streetcarsmanchester.co.uk), or call +44 (0)161 228 7878.

## Visas

Citizens of the European Union do not need a visa to enter Britain. If you are from any other country, find out about visa requirements before you travel by visiting <http://www.ukba.homeoffice.gov.uk/visas-immigration/>.

## Tourist information

Manchester is a city and metropolitan borough in North West England. The city is notable for its architecture, culture, music scene, media links, scientific and engineering output, social impact, sports clubs and transport connections.

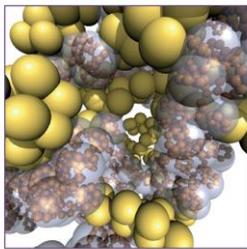
For more information on Manchester as a destination please log onto [www.visitmanchester.com](http://www.visitmanchester.com); here you will discover all things to do in Manchester - from events and attractions to fine dining and a great night out.

Download a printable version of the [www.visitmanchester.com/discover/maps.aspx](http://www.visitmanchester.com/discover/maps.aspx).

For city transport information please see [www.tfgm.com](http://www.tfgm.com).

## Useful local information for international visitors

- **Money** - Britain's currency is the pound sterling (£). Credit cards - especially Visa and Mastercard - are widely accepted in Manchester's restaurants, bars, cafés and shops. American Express and Diners Club cards are less commonly accepted. There are plenty of cash machines (also known as cashpoints or ATMs) dotted around Manchester.
- **VAT** - Value-added tax (VAT) is a 20% sales tax levied on most goods and services except basic food items, books and children's clothing. Restaurants must, by law, include VAT in their menu prices. If you are travelling for leisure or business purposes, you may be eligible for a VAT refund. The VAT refund scheme is called the Retail Export Scheme or Tax-Free Shopping.  
[www.hmrc.gov.uk/vat/sectors/consumers/overseas-visitors.htm](http://www.hmrc.gov.uk/vat/sectors/consumers/overseas-visitors.htm)
- **Electricity** - British electrical standards are 50Hz 230 volts, so some North American and European electrical devices may require converters; all will require plug adapters (please bring your own to the conference).
- **Climate and weather** - Manchester has a changeable climate. Average yearly low 6.33c (43.40) and average yearly high 13.13c (56.63). For the latest local BBC weather report <http://www.bbc.co.uk/weather/7281603>.
- **Medical services** - The National Health Service (NHS) is the main healthcare provider in the UK. NHS treatment is free for UK residents. Overseas nationals are not eligible for free NHS treatment except if they need emergency treatment while in the UK. You are strongly advised to take out travel insurance to cover



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any medical expenses. If you come from a country that holds a UK healthcare agreement, you are entitled to free or reduced-cost medical treatment if needed immediately for a condition that started after your arrival in the UK. If you're visiting from Europe, you need to carry a valid EHIC (European Health Insurance Card) in case you need immediate and necessary medical treatment in an NHS hospital. Without this you can be charged for treatment. Travel insurance is still advisable as it offers greater flexibility over where and how you're treated, and can cover expenses not paid for by the NHS. Find out more on the NHS website [www.nhs.uk/NHSEngland/Healthcareabroad](http://www.nhs.uk/NHSEngland/Healthcareabroad)

- **Emergencies** - Visitors should be aware of their personal safety. Call 999 for the emergency services (police, fire and ambulance) which is a free call from any phone. You can also call 112 for non-life threatening assistance and to report crimes. To report non-urgent crime, call the police on 101 from within the UK.

## IOP membership

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Full details will be sent to you after the conference. In order to take advantage of this affiliate membership, payment for the conference registration fee must be received in accordance with our payment terms.

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**Institute of Physics**

76 Portland Place, London W1B 1NT, UK

Telephone: +44 (0)20 7470 4800

Fax: +44 (0)20 7470 4848

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