



# 5th Superconductivity Summer School

**11–13 July 2018**  
**Wolfson College, Oxford, UK**

Organised by the IOP Superconductivity Group

<http://super2018.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. If you do have any questions or require further information, please contact a member of the conferences team.

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## Organising committee

Dr Ziad Melhem (conference chair), Oxford Instruments, UK  
Tel: +44 (0) 1865 393222  
Email: [ziad.melhem@oxinst.com](mailto:ziad.melhem@oxinst.com)

Dr Mark Ainslie, University of Cambridge, UK

Professor Yuri Pashkin, Lancaster University, UK

Professor Susannah Speller, University of Oxford, UK

We hope that your time at the conference is trouble free. If you do encounter any problems, please report them to the conferences team who will make every effort to rectify the issues as soon as possible.



## Sponsors



*The Business of Science*®

### [Oxford Instruments](#)

Oxford Instruments NanoScience designs, manufactures and supplies market-leading research tools that enable quantum technologies, new materials and device development in the physical sciences. Our tools are used for creating high performance, cryogen free low temperature and magnetic environments, based upon our core technologies in low and ultra-low temperatures, high magnetic fields and system integration.



### [British Cryogenics Council](#)

The British Cryogenics Council was founded fifty years ago to promote knowledge and interest in Cryogenics. Our corporate membership is over 100 strong with a broad spectrum of expertise, from companies providing cryogenic products and services to universities undertaking low temperature research to end-users of cryogens and cryogenic systems. We share information via our website, newsletters, LinkedIn forum and by supporting the networking activities of the British Cryogenics Cluster and CryoUsers (a bi-annual forum for technicians and engineers working with helium liquefaction and cryogenics). Individual membership currently costs only £10 per year and members have access to our quarterly newsletter, the new edition of our Safety Manual and subsidised prices to attend BCC-sponsored workshops and training courses.



### [Oxford Centre for Applied Superconductivity](#)

Oxford has a long tradition of pursuing the exciting world of superconductivity and our Centre reflects the direct engagement between research and industry to prepare the technological and fundamental advances of the future. Our Superconductivity Hub is a joint project between the Materials Department and the Physics Department of the University of Oxford and the local industrial partners and research centres with interests in future applications of superconducting materials. Our Centre aims to pursue projects that can lead to future technologies and lead to the discovery of novel superconducting materials.



### [Sumitomo \(SHI\) Cryogenics](#)

Sumitomo Heavy Industries Ltd, Cryogenics Group, is the global leader in the manufacture, supply and support of Cryogenic Coolers. Customers in MRI, Semiconductor and Research markets choose us for our global network which is un-paralleled in its global scope whilst our experts offer the best application and after sales support.



## Exhibitors

### [Comsol](#)



COMSOL is a global provider of simulation software for product design and research to technical enterprises, research labs, and universities. Its COMSOL Multiphysics® product is an integrated software environment for creating physics-based models and simulation apps. A particular strength is its ability to account for coupled or multiphysics phenomena. Add-on products expand the simulation platform for electromagnetics, structural, acoustics, fluid flow, heat transfer, and chemical applications. Interfacing tools enable the integration of COMSOL Multiphysics® simulations with all major technical computing and CAD tools on the CAE market. Simulation experts rely on the COMSOL Server™ product to deploy apps to their design teams, manufacturing departments, test laboratories, and customers throughout the world. Founded in 1986, COMSOL employs more than 450 people in 20 offices worldwide and extends its reach with a network of distributors.

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Sumitomo Heavy Industries Ltd, Cryogenics Group, is the global leader in the manufacture, supply and support of Cryogenic Coolers. Customers in MRI, Semiconductor and Research markets choose us for our global network which is un-paralleled in its global scope whilst our experts offer the best application and after sales support.

## Disclaimer

The Institute of Physics, The University of Oxford and their approved representatives accept no responsibility for any accident, loss or damage to a participant's property during the conference.

## Social media

Follow and join the conversation using **#IOPsuper2018** and **@PhysicsNews**



## Venue

The conference venue is the Wolfson College (University of Oxford). The talks will be held in the Auditorium and refreshments and lunches will be held in the nearby buttery. The dinner on Wednesday evening will be held in the Main Hall and the BBQ dinner on Thursday evening on the Harbour Lawn (weather permitting).



Wolfson College  
Linton Road  
Oxford  
OX2 6UD  
Telephone: +44 (0) 1865 274 100  
[Google Map](#)

## Cloakroom

There will be a cloakroom available for luggage storage near the registration desk, but please note that these areas are not secure. All goods left are at the owner's risk and neither the IOP nor Wolfson College accept any liability for any loss or damage to personal goods.

## Prayer room

Anyone requiring the use of a prayer room should make a request at the IOP registration desk.

## Banking facilities

The nearest ATM is available in Summertown shopping district, which is situated about 10 minutes' walk from Wolfson College.

## Travel

For more information about travelling to Oxford, please visit <http://super2018.iopconfs.org/travel>.

## Programme

The full programme is available to download from the [conference website](#). A printed copy of the programme will be included in your welcome pack.



## Registration

Registration will be held in Leonard Wolfson Auditorium Foyer. Times are listed below. All attendees will receive a registration pack which will include a copy of the programme, a list of participants, a pen and pad, and a conference badge.

The book of abstracts is available in digital format and can be downloaded from the conference website. If you want a copy to refer to while on-site, please save or print a personal copy.

Participants are asked to wear their badge at all times to help with security and to enable you to identify fellow participants.

Date	Time
Wednesday 11 July	08:00-17:00
Thursday 12 July	08:00-15:00
Friday 13 July	08:00-15:00

Outside of these times and only in the case of emergency, please telephone 07919 008415 (Ana Santos, IOP).

## Payment

The organiser reserves the right to refuse admission to any participant who has failed to pay their registration fee prior to the event.

## Catering

The registration fee includes refreshments and lunch for the duration of the conference, dinner on Wednesday evening held in the Main Hall and BBQ Dinner on Thursday evening, held on the Harbour Lawn.

## Social programme

A canteen dinner will be held in the Main Hall on Wednesday 11 July at 19:00.

A barbecue dinner will be served on Thursday 12 July, from 19:00, on the Harbour Lawn (weather permitting). It will otherwise be served in the Buttery or Haldane (please listen to announcements on the day).

## Dietary requirements

Participants who have notified us of any dietary requirements will be catered for. Please make yourself known to the catering team. It will not be possible to provide an alternative menu unless prior notification has been received. Please email [ana.santos@iop.org](mailto:ana.santos@iop.org) if you have any questions.



## Accommodation

Single en-suite accommodation is available at Wolfson College on a bed & breakfast basis. Accommodation will not be part of the registration fee but it can be added to it. The price is £65 per night, inclusive of breakfast. Facilities include:

- Bed Linen
- Towels
- Small toiletry items on arrival
- Communal lounge and fully equipped kitchen
- Internet access on Wi-Fi
- 24-hour access
- Cooked breakfast served in the Main Hall between 8am and 9am

Important information:

- Smoking is strictly forbidden in bedrooms, inside buildings and on balconies
- Pets are not allowed within the accommodation or buildings
- No television

The accommodation is arranged over two floors with no lift access. If you require a ground floor room, please indicate this during registration. The communal kitchens are available to use during the event and are stocked with basic self-catering equipment as well as tea trays and kettles. There is also an iron and ironing board. Please bring your own adaptor, hairdryer, clock, radio and personal toiletries.

## Arrivals

Check-in time is from 14:00. If you arrive before your room is ready, there will be storage for your luggage.

## WiFi

WiFi access is available throughout the venue and in the residential rooms.

1. Connect to wi-fi network: BT Open Zone
2. Open browser and go to: [www.btwifi.com](http://www.btwifi.com)
3. Enter password: leonard

## Presenter instructions

### Oral presentations

The lecture auditorium is equipped with full audio-visual facilities, easily operated from the lectern console. Presenters are asked to prepare their talks to match the allocated times which will be enforced by the conference chair.



Speakers are requested to bring their presentations on USB memory stick, even if also bringing their own laptop. Please notify [ana.santos@iop.org](mailto:ana.santos@iop.org) as soon as possible before the School if your presentation is in a format other than PowerPoint, or if it features sound, so that we can supply the necessary equipment.

The College laptops use Microsoft Office 2010. There is no need to save files in “Compatibility Mode”, and doing so can complicate loading onto the College’s machines.

If your presentation was created on an Apple Mac computer, the USB memory stick must be formatted as either “FAT32” or “FAT16” in order for it to be read by our PC laptops. If bringing your own Mac laptop, please remember to bring the DVI (or Thunderbolt) to VGA connector. If you do not have the connector, please advise the model number of your Mac, so that we can provide the right cable.

Please remember that the UK has 3-pin sockets so, if you require a plug adaptor, you should also bring this with you.

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

## Format and Technical Requirements

- Speakers should use a minimum 16-point font size in PowerPoint slides to ensure legibility.
- To avoid potential problems with display fonts, please only use fonts common to both platforms (Arial, Courier, Courier New, Geneva, Georgia, Helvetica, Times, Times New Roman).
- For images in your presentations, it is preferable that the images are in jpg format. The image resolution must not exceed 1920 x 1080 pixels (width by height).
- Please ensure your presentation is using a 16:9 aspect ratio to fill the projection screens.
- If you have embedded video files to your presentation, they must be any of the following formats mpg, mpeg, wmv avi or QuickTime (mov)
- Do not forget to upload any video files separately in addition to your PowerPoint presentation.

## Safety and emergency evacuation procedures

### Personal property

Wolfson College and the Institute of Physics accept no responsibility for the loss of, or damage to, personal property. Visitors are advised to keep personal possessions with them at all times.

### Evacuation policy

The procedure on hearing the fire alarm, or on discovering a fire, is to vacate the building by the quickest and safest designated route, and report to the designated assembly point. Delegates should not attempt to use fire safety equipment to fight the fire themselves - it is installed for use by trained members of the college staff who will attend in the event of an alarm. Delegates should not re-enter the building until the Fire Service or College staff confirms that it is safe to do so.

### First aid

If an ambulance is required whilst you are in the college, dial 999 or contact the Lodge for assistance: +44 (0)1865 274100. The nearest Accident & Emergency Department is John Radcliffe Hospital.

### Security

Lodge staff are on duty 24-hours a day, 7-days a week. Should an accident, theft or other incident occur on the College premises, it must be reported without delay to the Lodge Reception.



## Smoking

In accordance with government legislation smoking is permitted only in the outdoor areas designated by the provision of cigarette disposal units. Smoking is NOT permitted in any indoor area, nor on balconies.

## Behaviour and conduct

The Institute of Physics and Wolfson College, reserve the right to charge in full any damage to the facilities. Considerate behaviour is expected of and shall be shown to, delegates at all times

## IOP Membership

The Institute of Physics (IOP) is a leading scientific society. We are a charitable organisation with a worldwide membership of more than 50,000, working together to advance physics education, research and application.

We engage with policymakers and the general public to develop awareness and understanding of the value of physics and, through IOP Publishing, we are world leaders in professional scientific communications.

For information, please visit [iop.org/membership](http://iop.org/membership) or email [membership@iop.org](mailto:membership@iop.org).

## Why join?

Membership of the IOP connects you to the wider physics community through events, meetings and conferences. It also supports your personal and career development through professional qualifications, resources and volunteering opportunities.

Our members come from diverse backgrounds and follow all kinds of career paths. From enthusiastic amateurs to those at the top of their fields in academia, business, education and government, membership of the IOP is for anyone who shares our ambition of increasing awareness of the importance of physics in government, education and industry.

## Get involved

- Join any of our special interest groups at the heart of the community
- Attend IOP conferences and events with exclusive member rates and grants
- Participate in regional meetings and activities organised by your local branch.

## Receive recognition

- Gain professional registration as a Chartered Physicist and Chartered Engineer
- Stand out with AMInstP, MInstP or FInstP after your name
- Receive tailored career support and guidance through our mentor matching scheme
- Develop key transferable skills with free online courses
- Polish your CV and perfect your interview skills with career tips and techniques guides
- Take control of your professional development with the MyCareerPath online management tool.

## Stay connected

- Get the latest physics news delivered to your door, mobile device or desktop every month with Physics World magazine
- Interact with professionals through the members only LinkedIn group
- Create your own @physics.org forwarding email address.

# Travel Bursaries Schemes for students and early career researchers

The Institute of Physics provides financial support to research students and early career physicists to attend international conferences, major national meetings, and visit international facilities.

Bursaries are available to members of IOP and are worth up to £300.

For further information, and to apply online, visit [iop.org/about/grants](http://iop.org/about/grants) or contact [supportandgrants@iop.org](mailto:supportandgrants@iop.org).



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**[www.iop.org/conferences](http://www.iop.org/conferences)**

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