



# CMQM (Condensed Matter and Quantum Materials)

**3–5 July 2019**

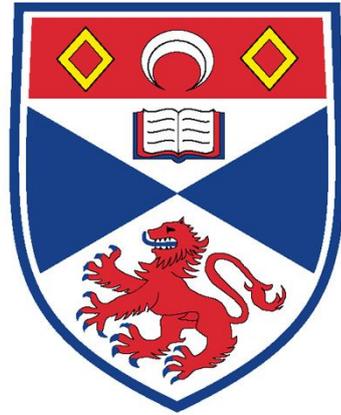
**University of St Andrews,  
St Andrews, UK**

**[cmqm2019.iopconfs.org](http://cmqm2019.iopconfs.org)**



CMQM (Condensed Matter  
and Quantum Materials)

Sponsors



University  
of  
St Andrews



## Contents

Contacts .....	2
Disclaimer .....	2
Social media .....	2
Venue .....	3
Floor plan .....	4
Accommodation .....	6
WiFi .....	7
Travel .....	7
Programme .....	7
Registration .....	7
Payment .....	8
Catering .....	8
Evening meals .....	8
Social programme .....	8
Exhibition .....	8
Presenter instructions .....	10
Safety and evacuation procedures .....	11
General information .....	12
App .....	12



## Contacts

Please read this handbook prior to the event as it contains all the information you will need while onsite at the conference. If you have any questions or require further information, please contact the organisers, Joseph MacNamara or Jason Eghan.

Joseph and Jason will be on-site during registration opening hours and based in the foyer. Outside of these times and only in case of an emergency, please telephone **+44(0) 7525 631480**.

### General enquiries

Joseph MacNamara

Tel: +44 (0)20 7470 4841

Mobile: +44(0) 7525 631480

Email: [joseph.macnamara@iop.org](mailto:joseph.macnamara@iop.org)

Jason Eghan

Tel: +44 (0)20 7470 4984

Email: [jason.eghan@iop.org](mailto:jason.eghan@iop.org)

### Conferences

Tel: +44 (0)20 7470 4800

Email: [conferences@iop.org](mailto:conferences@iop.org)

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 issue as soon as possible.

## Disclaimer

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

## Social media



Follow and join the conversation at #IOPCMQM2019



# CMQM (Condensed Matter and Quantum Materials)

## Venue

The conference will be held in the School of Physics and Astronomy at the University of St Andrews.

School of Physics and Astronomy,  
University of St Andrews,  
North Haugh,  
St Andrews  
KY16 9SS

[Google map](#)



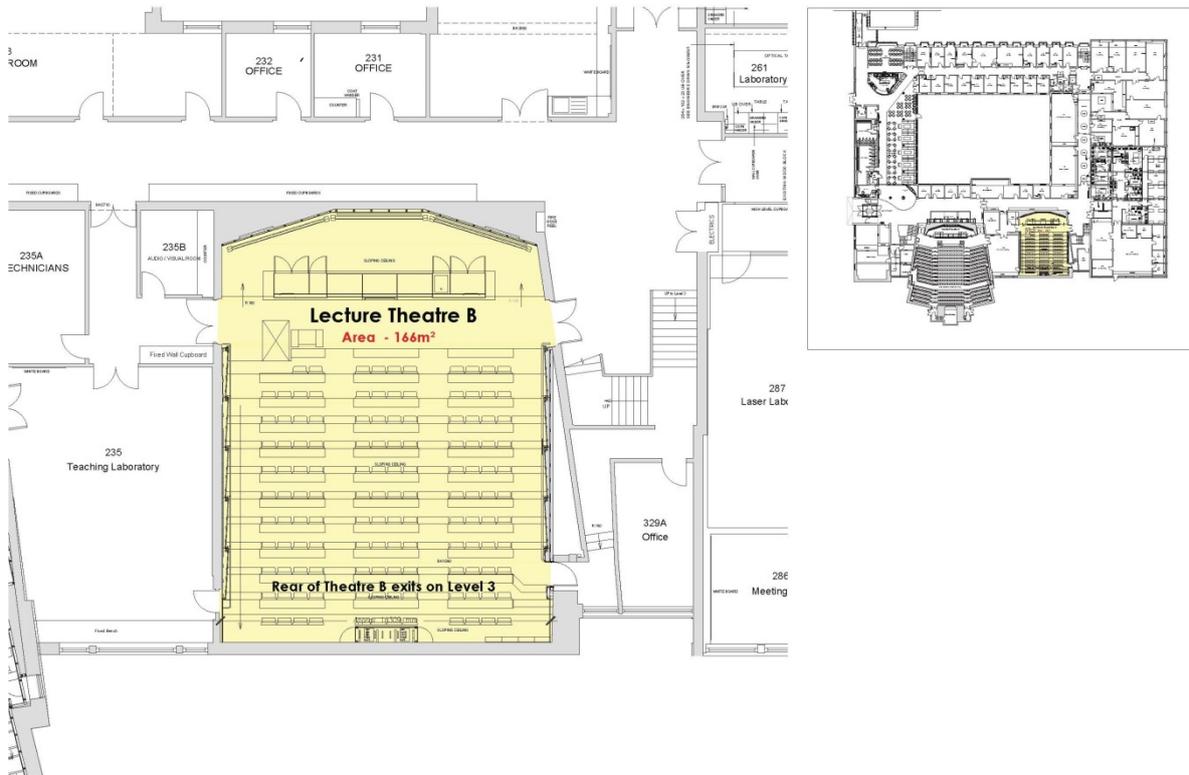
Please find below an overview of the location of each event.

Registration	Physics Foyer	Physics and Astronomy Building
Scientific talks	Theatres A, B, and C	Physics and Astronomy Building
Posters	Physics Foyer	Physics and Astronomy Building
Exhibition	Physics Foyer	Physics and Astronomy Building
Day time catering	Physics Foyer	Physics and Astronomy Building
Receptions	Physics Foyer	Physics and Astronomy Building
Conference Dinner	Lower College Hall	Lower College Hall
Accommodation	Agnes Blackadder Hall	Agnes Blackadder Hall

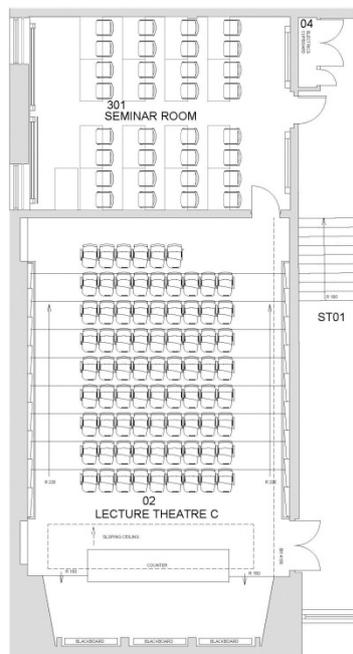




# CMQM (Condensed Matter and Quantum Materials)



Physics Building  
Lecture Theatre B



Physics - Level 3  
Lecture Theatre C



## Accommodation

Accommodation will be provided at the Agnes Blackadder Hall for those who booked via the University of St. Andrews website.

### Agnes Blackadder Hall

[ace.st-andrews.ac.uk/accommodation/agnes-blackadder-hall/](http://ace.st-andrews.ac.uk/accommodation/agnes-blackadder-hall/)

Agnes Blackadder Hall  
University of St Andrews  
North Haugh  
St Andrews  
Fife  
KY16 9XW

## Bedrooms

All the bedrooms at Agnes Blackadder Hall feature the following:

- double bed (4ft 6ins wide)
- en-suite shower room
- TV
- a desk and study chair
- tea and coffee making facilities
- WiFi internet complimentary throughout residence.

Double occupancy rooms are compact.

Towels and linens are provided, and bedrooms are serviced on a daily basis and towels changed as required. An iron and ironing board is available for use in the residence. Hair dryers may be collected from reception.

There are a small number of travel cots available for use; please enquire about cots at time of booking, and staff will reserve one for you if available. However, please note that linen is not provided for travel cots.

Agnes Blackadder Hall also has a dining room, a fully licensed bar and a selection of family rooms which can accommodate two adults and two children; these rooms feature two standard double beds (4ft 6ins wide).

## Check in and out

Normal **check in** and **check out** time is 2pm and 10am respectively. If you need to check in early and your room is ready, residence staff will do their best to accommodate you. If your room is not ready, you will be able to store your luggage.

Late check out may be available depending on whether your room is required for a guest arriving later that day. Please contact the residence to enquire about the possibility of early check in or late check out by emailing [agnes.blackadder@st-andrews.ac.uk](mailto:agnes.blackadder@st-andrews.ac.uk) or calling +44 (0)1334 467000.



## WiFi

Wifi can be accessed via two methods:

Eduroam - the University of St Andrews has eduroam - a global service that enables students, researchers and staff from participating institutions to obtain wifi connectivity. This is available in most University of St Andrews buildings (including residences). If your home institution has eduroam available, please ensure this is set-up prior to your visit to St Andrews. You will be unable to set up an eduroam connection in St Andrews if you haven't already set it up where you work or study.

BT Openzone is also available to guests without wifi. You will be able to connect free of charge in most University of St Andrews buildings (including residences).

## Travel

For detailed travel information, visit the conference [website](#). You can also find information on how to get to St. Andrews via the [University website](#). If you need any help planning your journey, please email [conferences@iop.org](mailto:conferences@iop.org).

## Programme

The full programme is available to download from the conference website. A printed copy will be included in your welcome pack, which you will receive on arrival at the event.

## Registration

The registration desk will be located at the University of St. Andrews in the Physics Building Foyer and will be held alongside posters, the exhibition, refreshments and lunch. The registration desk will be open throughout the conference at the times listed below. Outside of these times and only in case of emergency, please telephone +44 (0) 7525 631480.

On arrival at the registration desk, participants will receive a pen and pad, a copy of the programme and a conference badge. Participants are asked to wear their badge at all time throughout the conference to help with security and identify fellow participants. Replacement badges can be issued at the registration desk for £2.50.

Tuesday	18:00 – 20:00
Wednesday	08:30 – 17:30
Thursday	08:30 – 18:40
Friday	08:30 – 14:20

The abstract book will be available in digital format only and can be downloaded as a PDF from the website and via the conference app. If you want a paper copy to refer to while onsite at the conference, please print a personal copy.



## 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

Refreshments and lunch are included in the registration fee and will be served at set times throughout the conference. Please refer to the programme for times.

## Dietary requirements

Participants with dietary requirements are asked to notify the conference office by email prior to their arrival if not already done so when registering (please see your conference email). It will not be possible to provide an alternative menu unless prior notification has been received. Please email [joseph.macnamara@iop.org](mailto:joseph.macnamara@iop.org) if you have any questions.

## Evening meals

Participants should make their own arrangements for dinner as evening meals are not provided (excluding the conference dinner on Thursday). Visit [www.visitstandrews.com/eat](http://www.visitstandrews.com/eat) for more information on both dining and evening entertainment in St. Andrews.

## Social programme

### Welcome reception

A welcome reception will be held on Tuesday 2<sup>nd</sup> July during registration. The reception is taking place in the Physics Foyer from 6pm.

### Whisky Tasting

A presentation on whisky followed by a whisky tasting will be held alongside the poster session from 6:30pm on Wednesday 3<sup>rd</sup> July in the Physics Foyer.

### Conference Dinner

The conference dinner will be held on Thursday 4<sup>th</sup> July from 19:00 in the Lower College Hall. The dinner will consist of a three course menu with wine. The conference dinner was a purchasable extra during the registration process and is not included in the registration fee.

## Exhibition

An exhibition will be held from Wednesday 3<sup>rd</sup> until Thursday 4<sup>th</sup> July. Exhibitors contribute towards the cost to operate the conference, reducing the registration fee for all participants. We would therefore encourage participants to take the time to visit the exhibitors to find out about their products and services.



CMQM (Condensed Matter  
and Quantum Materials)

## CRYOGENIC

[Cryogenic](#)

[www.cryogenic.co.uk](http://www.cryogenic.co.uk)

Cryogenic Limited produces a range of customised superconducting magnet systems, including solenoids to 22 Tesla, split pairs to 14 Tesla and magnets for neutron beamline environments. Our standard measurement systems include magnets for NMR, EPR, SQUID and vibrating sample magnetometers. These configurations are offered as either cryogen free or liquid helium cooled systems.

## Elliot Scientific

[Elliot Scientific](#)

[www.elliotscientific.com](http://www.elliotscientific.com)

[@elliotsci](#)

Elliot Scientific offers a range of characterization instruments for exploring the electronic, magnetic, topological and chemical properties of advanced and emerging materials. Our partners include Lake Shore (cryogenic probe stations, temperature sensors and controllers, Hall effect platforms, and magnetometers), WITec (Raman microscopes and AFMs) and Lyncée Tec (digital holographic microscopes).



*The Business of Science*<sup>®</sup>

[Oxford Instruments NanoScience](#)

[www.nanoscience.oxinst.com](http://www.nanoscience.oxinst.com)

Oxford Instruments NanoScience designs, supplies and supports market-leading research tools that enable quantum technologies, new materials and device development in the physical sciences. Our tools support research down to the atomic scale through creation of 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, with ever-increasing levels of experimental and measurement readiness. Oxford Instruments NanoScience is a part of the Oxford Instruments plc group.



CMQM (Condensed Matter  
and Quantum Materials)



[Razorbill Instruments](#)

[www.razorbillinstruments.com](http://www.razorbillinstruments.com)

Uniaxial strain is rapidly becoming an important new parameter that can be used to tune the electronic properties of materials, such as superconductors and other strongly correlated electron systems, at low temperature and high magnetic field. Razorbill Instruments sells a range of compact cryogenic stress and strain cells to apply controlled strains and stresses to materials inside a research cryostat.

### Presenter instructions

The lecture theatre is equipped with the audio-visual aids listed below:

- Projection screen with a resolution of 1920 x 1200
- PC
- PA system
- Hand held and lapel microphones

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

- Plenary talks: 45 minutes talk + 15 minutes questions
- Invited talks: 25 minutes talk + 10 minutes questions
- Contributed talks: 15 minutes talk + 5 minutes questions

### Instructions for speakers

- We recommend presenters bring their presentation on a USB stick to load their talk onto the PC located in the theatre.
- Your presentation should be loaded on to the PC located in the meeting room in the break preceding the start of your session. Please save your presentation file in the appropriate named folder saved on the desktop. Direct connection of personal laptops should be avoided in the interest of time.
- Presenters are asked to prepare their talks to match the allocated times in the programme which will be strictly enforced by the session chairs.

### Format and technical requirements

- The meeting room is large, so 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.
- 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.

### Posters

Posters will be located in the Physics Foyer alongside refreshments and lunch (daily), Whisky Tasting reception (Wednesday) and the exhibition (Wednesday and Thursday). Posters can be mounted from 11:00 on Wednesday 3 July and can remain on display for the duration of the event. Posters should be removed by 14:20 on Friday 5 July. Any poster not removed by this time will be recycled.

Poster boards are 180cm by 90cm (h x w) and orientated vertically. **Posters should be A0 in size (118.9 x 84.1cm/ 46.8 x 33.1 inches), in a portrait format.** Posters must be prepared in advance of the conference as it will not be possible to print them on-site. Fixing material will be supplied to mount your poster.

### Safety and evacuation procedures

#### Access and security

All users should note that CCTV is present in the building. The janitor is contactable for all security and access questions on ext. 3136.

#### Safety

There are trained first aiders in the building, including the IOP representatives. There are safety notice boards round the building with general, fire and first aid notices posted.

#### Fire safety summary

The alarm is tested at 3pm on Mondays (alternative weeks with Maths). The muster point is outside the main entrance door on Level 2, by the car park.

#### Emergency

Emergency notices are displayed around the building.

#### Smoking

Smoking is permitted outside the main entrance on level 2.

#### University liability

The University has liability insurance covering all users of the building. This is conditional on the individuals taking time and care to understand the safety and security implications and conforming to the advice contained.



### Material and waste policy

Recycling bays are located on all floors of the building. A bulk recycling store is located to the North East of the building by the Loading Bay on level 1.

### First aid

If you fall ill or injure yourself during the conference, please report the incident to a member of staff who will call a trained first-aider. In case of serious injury, paramedics will be called. All members of the conferences team are also trained first aiders.

### General information

- Britain's currency is the pound sterling (£). Credit cards - especially Visa and MasterCard - are widely accepted in 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) available within walking distance of the hotel. In Scotland you can use both Sterling banknotes issued by the Bank of England and Scottish banknotes. The Scottish banknotes will always be accepted in Scotland, but in some parts of the UK they are not as easily accepted, so we recommend using your Scottish banknotes as much as possible while in Scotland and reserve the Bank of England pounds if you're planning to visit the rest of Britain.
- 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.
- Electricity - British electrical standards are 50Hz 230 volts, so some North American and European electrical devices may require converters; all require plug adapters.
- Telephone - If you're visiting the UK from abroad, the UK dialling code is +44 (which replaces the first 0).
- Emergencies - Visitors should be aware of their personal safety. Call 999 for the emergency services (police, fire and ambulance), which is free to 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.
- Weather - The Weather in the UK can be unpredictable and therefore we recommend participants bring a water proof rain jacket and/or umbrella. The average temperature for July in St Andrews is between an average high of 19 °C and average low of 10 °C, with an average of 9 days of rain.

### Conference app

The CMQM conference 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.

**Institute of Physics**  
37 Caledonian Road, London N1 9BU  
Telephone: +44 (0)20 7470 4800  
**[iop.org/conferences](http://iop.org/conferences)**

Registered charity number 293851 (England & Wales) and SC040092 (Scotland)