



Polarized Neutrons in Condensed Matter Investigations (PNCMI)

3–6 July 2018

Milton Hill, Abingdon, UK





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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 Polarised Neutron School and PNCMI conference. If you have any questions or require further information, please contact a member of the organising team.

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Conferences

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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 organisers, Milton Hill and their approved representatives accept no responsibility for any accident, loss or damage to a participant's property during the conference.

Committee

Organising committee

- [Ross Stewart](#) (Chair)
- [Gøran Nilsen](#) (Editor)
- [Christy Kinane](#) (Conference Secretary)
- [Robert Dalglish](#) (Abstract Secretary)
- [Sean Langridge](#)
- [Sara Fletcher](#)

School organisers

- [Gøran Nilsen](#)
- [Nina Steinke](#)

International advisory committee

- Sasha Ioffe (MLZ, Germany) **Chair**
- Arantxa Arbe (University of San Sebastian, Spain)
- Julie Borchers (NIST, USA)
- Thomas Brückel (FZJ, Germany)
- Laurent Chapon (Diamond, UK)
- Wangchun Chen (NIST, USA)
- Mechthild Enderle (ILL, France)
- Bela Farago (ILL, France)
- Arsen Goukassov (CEA, France)



- Sergey Grigoriev (PNPI, Russia)
- Takashi Ino (J-Parc, Japan)
- Kazu Kakurai (CROSS/J-PARC, Japan)
- Thomas Keller (MLZ, Germany)
- Valeria Lauter (SNS, USA)
- Andreas Michels (University of Luxembourg)
- Katia Pappas (TU Delft, Netherlands)
- Roger Pynn (Univ. Indiana)
- Astrid Schneidewind (MLZ, Germany)
- Jochen Stahn (PSI, Switzerland)
- Boris Toperverg (PNPI, Russia)
- Jörg Voigt (FZJ, Germany)
- Igor Zaliznyak (Brookhaven National Laboratory, USA)

Social media

Follow and join the conversation at #PNCMI2018

Sponsors



Australian Nuclear Science and Technology Organisation



Science & Technology Facilities Council

ISIS Neutron and Muon Source



The Business of Science[®]



IOP | Institute of Physics
Neutron Scattering Group





Polarised Neutron School

Venue

The Polarised Neutron School will take place on 1st and 2nd July in Conference Rooms 15 and 17 on the Rutherford Appleton Laboratory Campus (Building R80). A campus map is appended at the back of this document.

ISIS Neutron and Muon Source
 Science and Technology Facilities Council
 Rutherford Appleton Laboratory
 Didcot
 OX11 0QX
 United Kingdom

Please visit the ISIS [website](#) for directions.

PNCMI School Schedule

Time	08:45-09:00	9:00-10:00	10:00-10:15	10:15-11:15	11:15-12:15	12:15-13:15	13:15-14:15	15:15-16:15	16:15-16:30	16:30-17:30	17:30	19:00	
Sunday	Arrival	Lecture 1: Basic Principles (G Nilsen)	Coffee	Lecture 2: Devices (K Andersen)	Lecture 3: Reflectometry and SANS (N-J Steinke)	Lunch	Lecture 4: Inelastic Scattering (J Voigt)	Lecture 5: Spin Echo (A Washington)	Coffee	Lecture 6: Diffuse Scattering (J Paddison)	Departure	Dinner: MHH	
Monday	Practical 1: Diffraction – Larmor (R Stewart, R Dalgliesh)					Lunch	Practical 1: Diffraction – Larmor (R Stewart, R Dalgliesh)					Departure	Dinner: Red Lion
	Practical 2: Polarized Reflectometry – Offspec (J Cooper, N-J Steinke)						Practical 2: Polarized Reflectometry – Offspec (J Cooper, N-J Steinke)						
	Practical 3: ³ He – Crisp (G Nilsen, M Devonport)						Practical 3: ³ He – Crisp (G Nilsen, M Devonport)						

Accommodation

Accommodation will be provided at Milton Hill on Saturday 30 June and Sunday 1 July on a bed and breakfast basis. Breakfast will be served from 07:30-09:30 on Sunday and from 07:00-09:00 on Monday.

Meals

Lunch and dinner will be provided on Sunday 1st July and Monday 2nd July. Lunch will be available at ISIS; dinner will be in the main restaurant at Milton Hill on Sunday and at the Red Lion on Monday 2 July (see below).

Dinner will not be provided on Saturday 30 June and participants will need to make their own arrangements. The hotel restaurant will be open, alternatively, the Pack Horse pub is a 3 minute walk away, and there are also dining options in the nearby villages of Steventon and Harwell (around 20-30 minutes on foot).

Transport

To Milton Hill

There are unfortunately no convenient public transport links between Didcot Parkway station and Milton Hill on weekends. We would therefore strongly recommend you get a taxi from the station to the hotel (approx. £10-15). Alternatively, it is possible to take bus X32/98 either towards Wantage/Harwell Campus (approx. £3 getting off at Rowstock Roundabout) or towards Oxford (Milton Heights Turn), followed by a 20 minute walk along a relatively busy road.



To and from ISIS

There will be a minibus departing from the front of Milton Hill to ISIS at 08:25 on Sunday morning. Nina will be waiting for you outside with name badges, which you must wear on entering the RAL site. The bus will return to Milton Hill House from ISIS at 17:30. Please remember to bring your passport or identity card.

On Monday, a minibus will depart from the front of Milton Hill to ISIS at 08:25. Please remember to bring your passport or identity card, as well as your name badge. The bus will depart from ISIS to The Red Lion Pub and Kitchen in Blewbury at 17:45, and then return to Milton Hill House at 21:15.

Enquiries

If you have any questions about the school, please email goran.nilsen@stfc.ac.uk or nina-juliane.steinke@stfc.ac.uk.



PNCMI Conference

Venue

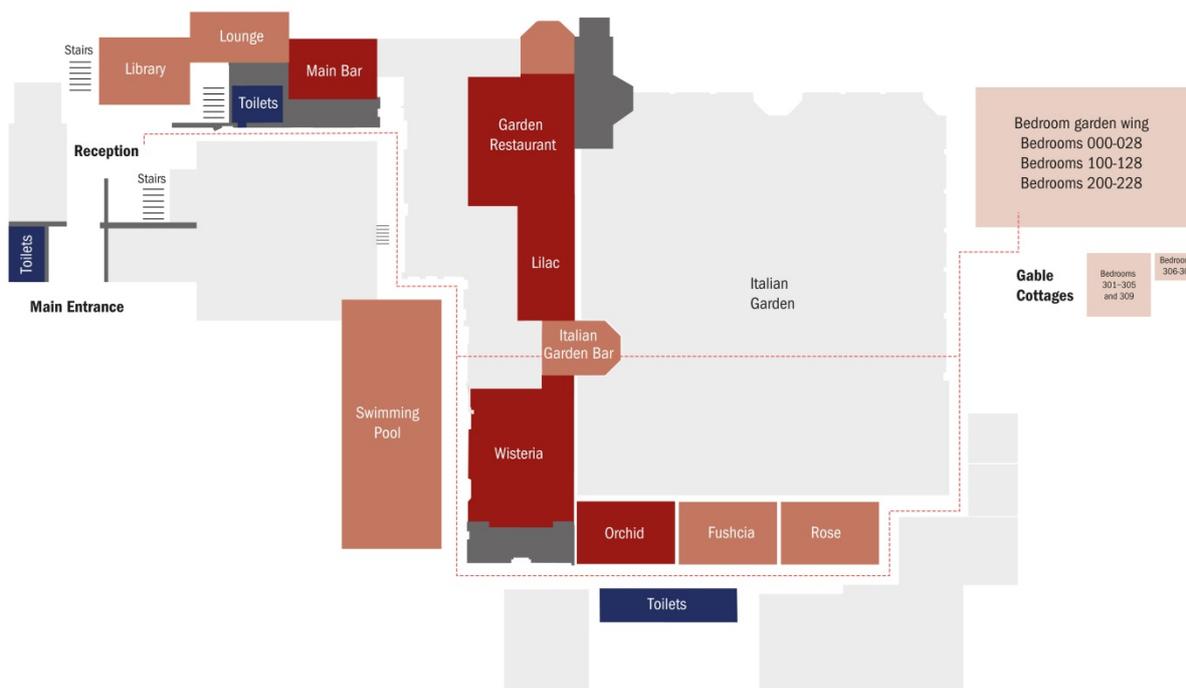
The conference will take place at Milton Hill in Abingdon.

Milton Hill, Abingdon
Steventon
OX13 6AF

[Google map](#)

The talks will take place in the Wisteria Suite, while posters and exhibition will be in the Lilac and the Orchid. Refreshments will be served in the Italian Garden Bar (located directly outside the Wisteria Suite), there will also be catering points located outside the restaurant and in the Café lounge. Lunch will be served in the main restaurant.

Floor plan



Accommodation

For those participants who have booked the residential rate, accommodation will be provided at Milton Hill from Tuesday 3 July to Friday 6 July. Accommodation for the Monday night is a supplementary cost and must be pre-booked separately. The non-residential fee does not include accommodation.

Please check the booking confirmation which accompanied this handbook to ensure you have booked the correct package. If you have any questions or wish to make any changes to your booking, please email claire.garland@iop.org as soon as possible.

All rooms are offered on a single occupancy basis and have en-suite facilities (private bathroom), complimentary toiletries, free Internet access, flat-screen TV and tea & coffee tray.



For residents only, breakfast will be served daily in the Main restaurant from 07:00-09:00.

Check in is 14:00 and check out is by 11:00. Bedroom keys can be picked up at reception, which is manned 24 hours per day.

Facilities

The hotel offers a gym with a wide range of cardiovascular and resistance training equipment and an indoor heated swimming pool, Jacuzzi, steam room and sauna. The gym is available to both residents and non-residents.

The gym and pool is open from 07:00 until 22:00. Last entrance is at 21:30.

Travel

For travel information, visit the conference [website](#) or hotel [website](#).

A mini bus will be available to collect participants from Didcot Parkway on 30th June, 2nd and 3rd July. For more information, email claire.garland@iop.org

Programme

	Tuesday 3 July	Wednesday 4 July	Thursday 5 July	Friday 6 July
9.00		<i>Materials</i> Chair: Sasha Belushkin Nikolaos Biniskos Javier Campo Liam Duffy Stephen Sponar	<i>Nanostructures 2</i> Chair: Katharina Theis-Brohl Sean Langridge Wolfgang Treimer Thomas Saerbeck Sergey Kozhevnikov	<i>Instrumentation 2</i> Chair: Alexander Ioffe Jeroen Plomp Ferenc Mezei Stefan Mattauch Steffen Schwesig
10.00	Registration and buffet lunch (entrance hall)	Refreshments		
10.30				
11.00		<i>Nanostructures 1</i> Chair: Thomas Saerbeck Alexander Grutter Dirk Honecker Katerina Theis-Brohl Marc Seifert Jacopo Valsecchi	<i>Instrumentation 1</i> Chair: Jochen Stahn Christian Franz Masahiro Hino Wai Tung Lee Goran Nilsen Wangchun Chen	<i>Methods</i> Chair: Earl Babcock Kenichiro Tateishi Zahir Salhi Olaf Holderer Vladislav Syromyatnikov Yifan Quan
13.00		Lunch		
14.00	Welcome			
14.30	<i>Magnetism 1</i> Chair: Astrid Schneidewind Lars Bannenberg Lucile Mangin-Thro Philip Welch Ketty Beauvois Werner Schweika	<i>Strongly Correlated Electron Systems</i> Chair: Roger Pynn Stephen Hayden Philippe Bourges Steven Lovesey Igor Zaloznyak Franz Haslbeck	<i>Magnetism 2</i> Chair: Lucile Mangin-Thro Kazu Kakurai Navid Qureshi Vladimir Hutanu Nonki Terada Steffen Säubert	ISIS Tour
16.30	Refreshments			
	<i>Soft Matter/Larmor Techniques</i> Chair: Ferenc Mezei Jeremy Lakey Olaf Holderer Steven Parnell	Posters 1	Posters 2	
19.30	Dinner	Dinner	BBQ	

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



Tour of ISIS

A coach will depart from outside Milton Hill at 14:15 on Friday 6 July for ISIS. On the return, the coach will depart ISIS at 16:30 and drop participants back to Milton Hill and Didcot Parkway Station.

Registration

The registration desk will be located in the reception area at the times listed below. All attendees will receive a registration pack which includes a copy of the programme and abstracts, a list of participants, a pen and pad, and a conference badge.

Participants are asked to wear their badge at all times to help with security and to identify fellow participants. Replacement badges can be issued at the registration desk at a cost of £2.50 each.

Tuesday 3 July	10:00-19:00
Wednesday 4 July	08:00-18:00
Thursday 5 July	08:30-18:00
Friday 6 July	08:30-14:00

Outside of these times and only in the case of an emergency, please telephone 07881 932 142.

Payment

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

Exhibition

An exhibition will be held on Wednesday 4th and Thursday 5th July in the Orchid room alongside posters. Please take the time to visit the exhibitors to find out about their products and services.

Oxford Instruments

www.oxinst.com/nanoscience



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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.

MDPI

www.mdpi.com/



A pioneer in scholarly open access publishing, MDPI has supported academic communities since 1996. Based in Basel, Switzerland, MDPI has the mission to foster open scientific exchange in all forms, across all disciplines. At PNCIM 2018 we will present our open access journals [Quantum Beam Science](#), [Condensed Matter](#), [Nanomaterials](#), [Magnetochemistry](#) and [Crystals](#).

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Catering and social programme

The registration fee includes refreshments and lunch for the duration of the conference as well as evening meals on Tuesday 3rd July, Wednesday 4th July and Thursday 5th July. Please refer to the programme for timings.

Refreshments will be served in the Pegola Bar (located directly outside the Wisteria Suite), there will also be catering points outside the restaurant and in the Café lounge. Lunch and dinner will be served in the main restaurant except on Thursday, which will be located in the Gardens (weather permitting).

During each of the poster sessions, participants can redeem a drink at the bar (vouchers will be included in your welcome pack). The voucher entitles you to one glass of beer, wine, soft drink or single measure spirit.

Dietary requirements

If you have notified us of any special dietary requirements, please make this known to catering staff on arrival at the restaurant.

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 questions.

WiFi

Complimentary WiFi is available throughout the hotel. The WiFi network is 'Milton Hill'.

To login, open your browser and click connect, there are no password requirements.



Oral presentations

The time allotted for invited presentations is 25 minutes (+5 minutes for questions) and for contributed talks 17 minutes (+3 minutes for questions). Please ensure that you adhere to the time allocated and leave sufficient time for questions.

The lecture theatre will be equipped with the following equipment:

- Data Projector
- 3.98 x 2.20 metres screen (presentation ratio 16x9)
- Laptop
- Remote mouse / laser pointer

If you require any additional equipment, please email claire.garland@iop.org

Poster presentations

Posters will be on display on Wednesday and Thursday in the Lilac and Orchid Room.

Posters must be no larger than A0 in size (118.9 x 841 mm / 46.8 x 33.1 inches) in a portrait orientation. Fixing material will be supplied.

Safety and emergency evacuation procedures

If the alarm sounds, please evacuate the building immediately and assemble outside and away from the hotel. You will be informed on the day, if there are any test alarms.

Smoking

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

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 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 on the campus.
- 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 0).
- 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

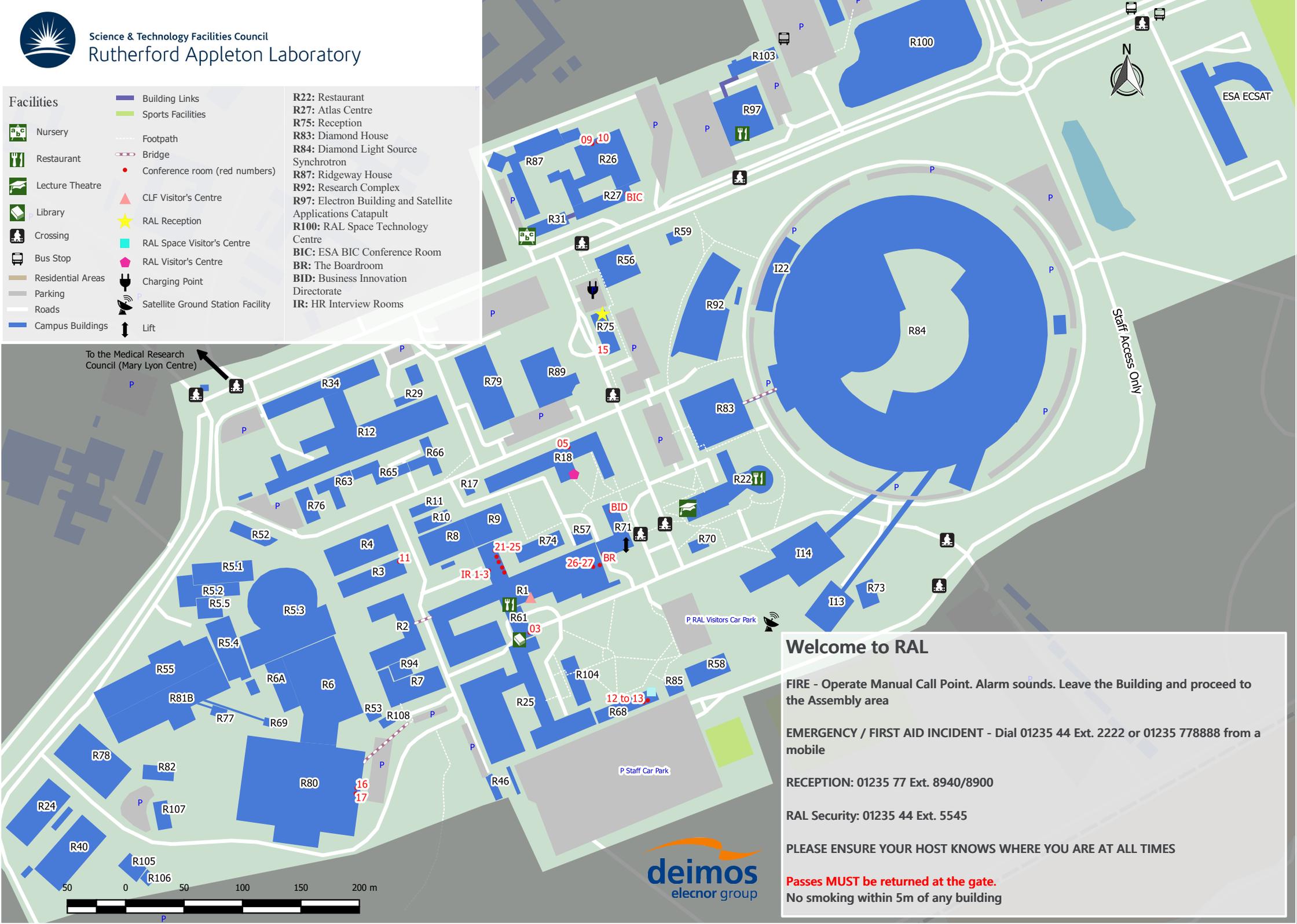


ESA ECSAT

Facilities

- Nursery
- Restaurant
- Lecture Theatre
- Library
- Crossing
- Bus Stop
- Residential Areas
- Parking
- Roads
- Campus Buildings
- Building Links
- Sports Facilities
- Footpath
- Bridge
- Conference room (red numbers)
- CLF Visitor's Centre
- RAL Reception
- RAL Space Visitor's Centre
- RAL Visitor's Centre
- Charging Point
- Satellite Ground Station Facility
- Lift

- R22:** Restaurant
- R27:** Atlas Centre
- R75:** Reception
- R83:** Diamond House
- R84:** Diamond Light Source Synchrotron
- R87:** Ridgeway House
- R92:** Research Complex
- R97:** Electron Building and Satellite Applications Catapult
- R100:** RAL Space Technology Centre
- BIC:** ESA BIC Conference Room
- BR:** The Boardroom
- BID:** Business Innovation Directorate
- IR:** HR Interview Rooms



Welcome to RAL

FIRE - Operate Manual Call Point. Alarm sounds. Leave the Building and proceed to the Assembly area

EMERGENCY / FIRST AID INCIDENT - Dial 01235 44 Ext. 2222 or 01235 778888 from a mobile

RECEPTION: 01235 77 Ext. 8940/8900

RAL Security: 01235 44 Ext. 5545

PLEASE ENSURE YOUR HOST KNOWS WHERE YOU ARE AT ALL TIMES

Passes MUST be returned at the gate.
No smoking within 5m of any building

