

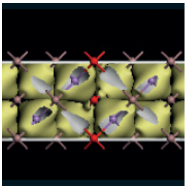
# INTERNATIONAL WORKSHOP ON COMPUTATIONAL NANOTECHNOLOGY

**5–9 June 2017**

**Low Wood Hotel, Windermere, UK**

Organised by the IOP Nanoscale Physics and Technology Group

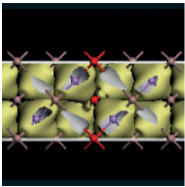
<http://iwcn2017.iopconfs.org/>



# International Workshop on Computational Nanotechnology

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# International Workshop on Computational Nanotechnology

## Enquiries

### Conference Organiser

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### Conference chair

Robert Kelsall, University of Leeds, UK

### Organising committee

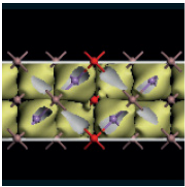
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Dragan Indjin, University of Leeds, UK  
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Matt Probert, University of York, UK  
Karol Kalna, Swansea University, UK  
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### Programme committee

Karol Kalna, Swansea University, UK  
Christian Jirauschek, TU Munich, Germany  
Greg Sun, University of Massachusetts Boston, USA  
Davide Donadio, University of California, Davis, USA  
Branislav Nikolic, University of Delaware, USA  
Marc Bescond, University of Marseille, France  
Tomas Gonzalez, Salamanca, Spain  
Douglas Yoder, Georgia Tech, USA  
Yiming Li, National Chiao Tung University, Taiwan  
Alison Walker, University of Bath, UK  
Denis Andrienko, Max Planck Institute for Polymer Research, Germany  
Alex Shluger University College London, UK  
Michelle Spencer, RMIT University, Australia  
Derek Stewart, Western Digital, USA  
Sarah Harris, University of Leeds, UK  
Gianluca Fiori, University of Pisa, Italy

### Advisory committee

Aldo Di Carlo, University of Rome "Tor Vergata", Italy  
Philippe Dollfus, University of Paris-Sud/CNRS, France  
Massimo Fischetti, University of Texas, Dallas, USA  
David Ferry, Arizona State University, USA  
Stephen Goodnick, Arizona State University, USA  
Karol Kalna, Swansea University, UK  
Robert Kelsall, University of Leeds, UK  
Gerhard Klimeck, Purdue University, USA



# International Workshop on Computational Nanotechnology

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Irena Knezevic, University of Wisconsin, Madison, USA  
Paolo Lugli, Technical University of Munich, Germany  
Massimo Macucci, University of Pisa, Italy  
Nobuya Mori, Osaka University, Japan  
Wolfgang Porod, University of Notre Dame, USA  
Nobuyuki Sano, Tsukuba University, Japan  
Siegfried Selberherr, Technical University of Vienna, Austria  
Mincheol Shin, Korea Advanced Institute of Science and Technology, Korea  
Michael Stroschio, University of Illinois-Chicago, USA  
Dragica Vasileska, Arizona State University, USA

The International Workshop on Computational Nanotechnology 2017 conference is organised by:

**IOP** | Institute of Physics  
Nanoscale Physics and  
Technology Group

[IOP Nanoscale Physics and Technology Group](#)

## Disclaimer

The Institute of Physics, The Low Wood Bay Hotel, and their approved representatives cannot take responsibility for any accident, loss or damage to participants or their property during the conference.

## Location

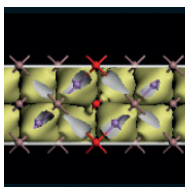
The conference will be held at The Low Wood Bay Hotel from 6-9 June 2017. The International Wigner Workshop will take place prior to the conference on 5 June. The easiest access point to registration will be via the main entrance. The exhibition will take place alongside posters and catering (only on exhibition days) in the Gallery Lounge. The talks will take place in the The Coniston & Ullswater Rooms.

The BBQ reception on Tuesday evening will take place on the hotel lawns but in case of adverse weather; this will be brought indoors.

## Venue address:

Low Wood Bay  
Ambleside Road  
Windermere  
Cumbria  
LA23 1LP





# International Workshop on Computational Nanotechnology

For information about the venue, please visit their website: <http://englishlakes.co.uk/hotels/lake-district-hotels/windermere-hotels/low-wood-bay/>

## Registration

Registration will open on Monday morning for the International Wigner Workshop in the Gallery Lounge. Times are as follows:

Date	Times
Monday 5 April 2017	08:00 - 20:00
Tuesday 6 June 2017	08:00 - 20:00
Wednesday 7 June 2017	08:30 - 14:00
Thursday 8 June 2017	08:30 - 18:00
Friday 9 June 2017	08:30 - 12:30

On arrival, each participant will receive a delegate pack containing a lanyard badge, programme, delegate list, folder, note pad and pen. Please wear your badge at all times because this will help with security and enable you to identify your fellow delegates. Replacement badges can be issued at the registration desk.

The **conference abstract book** will be made available to delegates as a PDF file in advance of the conference. The abstract book will also be available in hard copy and will form part of your delegate pack.

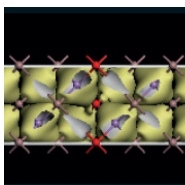
## Messages

A message board will be placed near the registration desk. Participants should check the board for messages as an attempt to locate participants will only be made in the case of an emergency. During registration times, messages can be left by emailing [jon.roe@iop.org](mailto:jon.roe@iop.org) Messages can also be left by telephoning +44 07737 117388.

## Catering

Lunches, and refreshments during the conference are included in the registration fee and served at set times during the conference programme. For delegates attending the International Wigner Workshop, a light buffet will be served alongside the poster session between 19:00-21:30.

Dinner is not included for delegates on Wednesday evening. On return from Muncaster Castle you will be free to visit local restaurants or stay and use the hotels facilities. The town centre is only a short distance from the hotel but we will be on hand to offer any assistance.



## International Workshop on Computational Nanotechnology

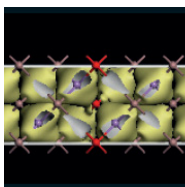
Please refer to the table below for locations and timings.

Monday 5 June	Registration	07:45-08:25
	Refreshment break	10:10-10:25
	Lunch	12:05-13:00
	Refreshment break	14:40-14:55
	Refreshment break	16:35-16:50
	Reception	19:00-21:30
Tuesday 6 June	Registration	08:00-09:00
	Refreshment break	10:45-11:15
	Lunch	13:00-14:30
	Refreshment break	16:00-16:30
	BBQ reception	19:30-20:30
Wednesday 7 June	Registration	08:00-09:00
	Refreshment break	10:45-11:00
	Lunch	12:45
Thursday 8 June	Registration	08:00-09:00
	Refreshment break	10:45-11:15
	Lunch	13:00-14:30
	Refreshment break	16:00-16:30
	Conference Banquet	20:00-22:30
Friday 9 June	Registration	08:30-09:00
	Refreshment Break	10:45-11:15
	Lunch and close	12:45

### 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 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.

Nut allergies – unfortunately the venue cannot provide assurances that food has not been cross-contaminated with traces of nuts during ingredient processing at manufacture's sites, and during food preparation and on-site. For this reason, we are unable to provide guarantees that any of the food served is free from nuts or trace elements. Please e-mail [jon.roe@iop.org](mailto:jon.roe@iop.org) if you have any queries.



# International Workshop on Computational Nanotechnology

## Presenter's information

### Oral presentations

The lecture theatre (Cruciform Building lecture theatre) is equipped with the following audio-visual equipment:

- Computer with PowerPoint facilities (Office XP and Windows XP)
- Data projector and projector screen
- Microphone – Radio x1 (Lapel) / Laser point

Speakers wishing to use additional audio-visual equipment or intending to present from a Macintosh computer are asked to contact Jon Roe ([jon.roe@iop.org](mailto:jon.roe@iop.org)) before the conference. The hotel have limited access to a MAC adapter so it is advised that you bring your own.

Speakers are requested to bring their presentations on a USB memory stick in either Office 2007 or .pdf format and preload them onto the 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, PowerPoint presentations should have been saved using PowerPoint's "Package for CD" facility. Direct connection of personal laptops (with set up in the break prior to the corresponding session) is an acceptable but not preferred alternative.

The lecture theatre is reasonably large, and speakers should use a minimum 15-point font size in PowerPoint slides to ensure legibility.

Presenters are asked to prepare their talks to match the allocated times which will be rigidly enforced.

- Invited talks (25 mins, Q&A: 5 mins)
- Contributed talks (12 mins, Q&A: 3 mins)

### Poster information

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 must not be larger than **A0** in size and should be a **portrait** format. The poster board measures 6ft (1830mm) tall by 3ft (940mm) wide, and therefore if your poster does not fit within these dimensions, we cannot guarantee it will be displayed. Fixing material will be provided to mount your poster.

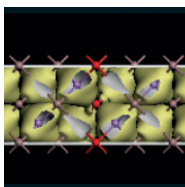
The poster session for the International Wigner Workshop will take between 19:00-21:30 on Monday 5 June in the Gallery Lounge, and we advise presenters to mount posters during the morning refreshment break for maximum exposure. Posters must be removed by 21:30.

The poster session for the International Workshop on Computational Nanotechnology will take place the following day between 17:30-19:30 in the Gallery Lounge. Posters must be removed by 11:15 on Friday 9 June.

Although organisers will endeavour to save poster material, no guarantee can be made for posters not removed by the scheduled times.

### Content

Posters are a visual presentation of your research and as such we recommend that you use schematic diagrams, graphs and tables, where possible, rather than just text. Please use an appropriate sized font so the information is legible at a distance of about 3' or 1 metre.



# International Workshop on Computational Nanotechnology

## Programme

Please refer to the website at <http://iwcn2017.iopconfs.org/programme2> for the latest programme.

## Social programme

On Tuesday 6 June there will be an exhibitor BBQ at the hotel overlooking the jetty. This will follow the presentations at the end of the day and be a chance for delegates to interact with the exhibitors.

On the final evening of the conference we will be boarding a private charter on Miss Lakeland, departing from The Low Wood jetty at 6.15pm and sailing around the lake for one and a half hours in total before returning back to the jetty for 7.45pm. There will be two separate tours, lasting 45 minutes apiece, and we will be providing a glass of Prosecco as a welcome drink for each guest to pick up as they board the boat. This will be followed by the conference banquet meal at the hotel at 20.00.

All social activities are included in the registration fee but if you wish to bring an additional person to any of the activities listed above, please state so when registering or let Jon Roe know via [jon.roe@iop.org](mailto:jon.roe@iop.org).

## Excursion

On Wednesday 7 June there will be an excursion to Muncaster Castle for a private hawk & owl tour. The castle is set in 77 acres of woodland and gardens against the backdrop of the Western Lake District fells and these idyllic surroundings provide memorable days out for visitors of all ages.

The Hawk & Owl tour comprises the centre itself and its bird collection, together with sensational bird of prey flying displays and wild heron feed.

The coaches will be departing at no later than 12:45, so can we ask all delegates to pick up the packed lunch provided and board the coach as swiftly as possible following the end of the session.

For further information about Muncaster Castle please click [here](#)

## Exhibition

The exhibition will take place from Tuesday 6 – Wednesday 7 June and will be located in the Gallery Lounge alongside the coffee breaks and poster session.

## Show times

Tuesday 6 June	10:30-20:00
Wednesday 7 June	10:00-19:00

## Exhibitor List

- Photon Design
- QuantumWise A/S

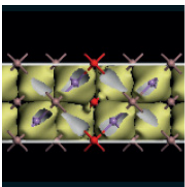
## Travel

For travel information, visit the website at <http://iwcn2017.iopconfs.org/travel>

Please be aware that travel may be disrupted on Sunday. National Rail will run services from Manchester and London. People departing from London will need to go to London Euston and change at Oxenholme Lake District station for a connect train to Windermere. People travelling from Manchester will need to go to Manchester Piccadilly and change at Oxenholme Lake District station for a connect train to Windermere.

There will be several taxi services outside the station but you may have to be patient as we are coming in to a popular period, especially at this time of the year.





## International Workshop on Computational Nanotechnology

A list of taxi services is copied below:

- Windermere taxis - 015394 44144
- Castle taxis - 01539 726233
- Blue star taxis - 01539 723670

### Parking

Car parking is to the rear of the hotel and there is a bus drop off/pick up point outside the front of the hotel. If you are interested please email [jon.roe@iop.org](mailto:jon.roe@iop.org).

### 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://ukvisas.gov.uk>.

### Safety information

#### Emergency evacuation procedures

- Operate the Local Fire Alarm point;

#### Internet access

Free WiFi is available at the Low Wood Bay Hotel. Details below-

- Username: IWCN2017
- Password: Windermere

#### First aid

In the event of an emergency: Ambulance, Fire Brigade or Police please dial 999.

#### Security

The hotel accepts no liability for loss of possessions brought on to the premises. For security related enquiries whilst on-site, please ask at the registration desk.

#### Smoking

Please note that it is a no-smoking policy in all of the conference venues and bedrooms.

#### Behaviour and conduct

The Institute of Physics and the Low Wood Hotel reserve the right to charge in full for loss or damage to the premises.

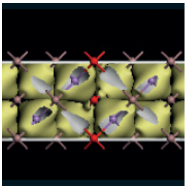
### Local information

#### Weather

Britain's weather is traditionally difficult to predict, despite the event being held in June. We urge you all to bring an umbrella and a coat.

#### Currency

Britain's currency - pound sterling (£) - see [www.xe.com](http://www.xe.com) for currency converters.



## International Workshop on Computational Nanotechnology

**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.

### Electricity

UK appliances are fitted with three-pin plugs that can be connected to the UK mains supply through wall sockets. Unlike the sockets in many other countries, these have a switch to turn the power supply on and off - make sure you've turned it on if you're trying to charge your appliance. UK power sockets deliver an average voltage of 230v, although in practice this can be slightly higher. To charge devices that are compatible with this voltage, simply buy the appropriate adapter from the airport or from high street shops. If your device runs on a lower voltage, however, then you will also need a converter to stop it from over-heating. Even if your country uses lower voltages, remember to check whether your device is dual-voltage (look for the 110-240v notation) before buying a converter.

### IOP membership

Membership of the Institute is for everyone 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, please visit [www.iop.org/membership](http://www.iop.org/membership)

Membership benefits include:

- Physics World - the world's leading physics magazine, monthly by post, online or as an app
- IOP Journal downloads
- Careers information and resources
- Professional Status
- Academic dress
- Learning online courses
- '@physics.org' email address
- Support and grants
- Members' room
- Meeting rooms
- Member rate for IOP conferences
- Discount on author charges (NJP)
- Business journals
- Making money out of ideas
- Local branch affiliation
- Specialist 'Groups'
- Membertalk
- IOP LinkedIn group

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