





# Advanced Materials for Demanding Applications

## Contact details

If you do have any queries before the event, please contact the conference office using the details below.

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## Conference chairs

Prof. Alison McMillan, Glyndwr University, UK

Dr. Steven Schofield, University College London, UK

## Sponsors



## Disclaimer

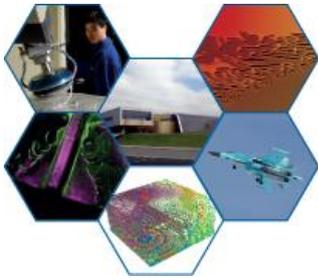
The Institute of Physics, Glyndwr University and their approved representatives cannot take responsibility for any accident, loss or damage to participants or their property during the conference.



# Advanced Materials for Demanding Applications

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# Advanced Materials for Demanding Applications

## Location

The conference will be held at Glyndwr University, St Asaph from 7 to 9 April 2014.



Glyndwr University  
OpTIC Glyndwr  
Ffordd William Morgan  
St Asaph Business Park  
St Asaph, LL17 0JD  
North Wales, UK  
Tel: +44 (0)1745 535140

The talks will be held in the conference room while, the exhibition and posters will be held on 'The Street'. Refreshments and lunch will be served from the exhibition area.

## Accommodation

A list of hotels within close proximity of Glyndwr University can be found online at <http://amda2014.iopconfs.org/>. To book, please contact the hotel quoting **AMDA** as the reference.

Coaches have been arranged to collect and drop off participants at a number of hotels close to Glyndwr University. Times are as follows:-

### Monday 7 April

- From Glyndwr University 19:30 – drop off at The Talardy, Premier Inn, The Oriel, Kinmel Manor and Faenol Fawr Hotel)

### Tuesday 8 April

- The Talardy – 07:40 (arrive at Glyndwr University at approx. 8:30)
- Premier Inn – 07:50 (arrive at Glyndwr University at approx. 8:30)
- The Oriel - 08:05 (arrive at Glyndwr University at approx. 8:30)
- Kinmel Manor - 08.30 (arrive at Glyndwr University at approx. 8:50)
- Faenol Fawr at 08.40 (arrive at Glyndwr University at approx. 8:50)

### Wednesday 9 April

- Premier Inn - 07.40 (arrive at Glyndwr University at approx. 8:20)
- Talardy - 07.50 (arrive at Glyndwr University at approx. 8:20)
- The Oriel - 08.05 (arrive at Glyndwr University at approx. 8:20)
- Kinmel Manor - 08.30 (arrive at Glyndwr University at approx. 8:50)
- Faenol Fawr - 08.40 (arrive at Glyndwr University at approx. 8:50)
- Glyndwr University – 16:20 to drop back at Rhyl station

## Internet access

Free WiFi is available; log into 'conference' and enter the password 1a2b3c4d5e.



# Advanced Materials for Demanding Applications

## Registration

Registration will take place in 'The Street' located outside of the lecture theatre at the following times:-

Date	Time
Monday 7 April	11:30-18:00
Tuesday 8 April	08:30-18:00
Wednesday 9 April	08:30-16:00

On arrival, each participant will receive a delegate pack containing a pen, pad, programme and a badge. The abstract book will be in digital form only, it will be sent to all paid and registered delegates before the start of the event.

Participants are asked to wear their badge at all times because this will help with security and enable you to identify your fellow participants. Replacement badges can be issued at the registration desk. On departure, please return your badge to the conference desk as it can be recycled.

## 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 telephoning +44 (0)7881 923 142.

## Catering

Refreshments and lunch will be served at the following set times within the programme:-

	Monday 7 April	Tuesday 8 April	Wednesday 9 April
Morning refreshments	-	10:30-11:00	10:30-11:00
Lunch	12:00-13:30	13:00-14:00	12:30-13:20
Afternoon refreshments	14:30-15:00	15:50-16:10	14:50-15:10

## Social programme

The Social programme is included for all full-fee paying delegates.

### Monday 7 April

A drinks reception and buffet will be held at Glyndwr University on Monday 7 April from 17:00. The reception will be held in 'The Street' with the exhibitors and posters, while the buffet will be served in the dining room. Coaches will collect participants at 19:30 for The Oriel, Faenol Fawr Country House, Talardy, Premier Inn and Kinmel Manor Hotels.

### Tuesday 8 April

The conference dinner will be held at The Oriel Hotel on Tuesday 8 April from 19:30. Coaches will collect participants from Glyndwr University at 18:10 to transfer delegates to The Oriel Hotel, drinks will be provided on arrival. The dinner will finish at approximately 22:00. A coach has been arranged to transfer delegates staying at the Faenol Fawr Country House, Talardy, Premier Inn and Kinmel Manor Hotels.



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## 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. Please e-mail [claire.garland@iop.org](mailto:claire.garland@iop.org) if you have any queries.

## Programme

The final programme will be provided to all delegates on arrival at the event. In the meantime, please refer to the website at <http://amda2014.iopconfs.org> for the latest time table.

## Instructions for presenters

### For oral presenters

Speakers are asked to send their final presentation as a PDF or PowerPoint file prior to the conference by e-mail to [claire.garland@iop.org](mailto:claire.garland@iop.org). Please bring a back-up copy on a CD or USB memory stick. If you are unable to send your presentation prior to the conference, please bring it with you on a USB memory stick. You should save the presentation into the appropriate pre-named session folders on the desktop of the house computer and files should be saved by 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. If presenting from a Macintosh computer, please bring a VGA cable with you. You are reminded that the UK has 3-pin sockets so, if you require a plug adaptor, you should also bring this with you.

The meeting space is reasonably large so 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 by session chairs.

### For poster presenters

Posters will be on display throughout the conference in 'The Street' and can be mounted from 12:00 on Monday 7 April. Please remove your poster by 16:30 on Wednesday 9 April.

Poster boards measure 2m high x 1m wide and are Velcro compatible. Velcro will be supplied. Please ensure your poster fits within these dimensions otherwise, we cannot guarantee it will be displayed.

Please bring your poster with you to the conference. It will not be possible to print it on-site.

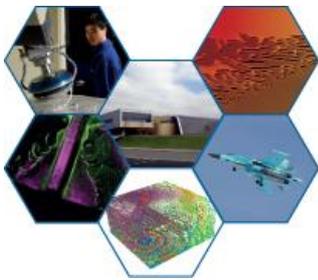
## Travel

Coaches have been arranged on Monday 7 April and Wednesday 9 April to collect and return participants from Rhyl railway station to Glyndwr University. Times are as follows:-

Date	Time	From	To
Monday 7 April	11:00	Rhyl Station	Glyndwr University
Monday 7 April	12:00	Rhyl Station	Glyndwr University
Wednesday 9 April	16:00	Glyndwr University	Rhyl Station

## By air

Glyndwr University St Asaph is approximately an hour's drive away from both Manchester International Airport and Liverpool John Lennon International Airport.



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## By train

The closest railway station to Glyndwr University is Rhyl. From Rhyl Railway Station, take a taxi to St Asaph Business Park, post code LL17 0JD. Glyndwr University is located prominently on the roundabout, and signed "OpTIC Glyndwr University". Journey time is approximately 10 minutes.

For information contact [National Rail Enquiries](http://www.nationalrail.gov.uk) (tel: +44 (0)8457 484950).

## By car



From the West - from the A55, exit at junction 26 to St Asaph Business Park (Parc Busnes Llanelwy). At the first roundabout, c 400m take the 3rd exit. Glyndwr University St Asaph is on your left.

From the East / England - from M53 or M56 join the A55. Exit the A55 at junction 26 to St Asaph Business Park (Parc Busnes Llanelwy). At the first roundabout, c 400m take the 3rd exit. Glyndwr University St Asaph is on your left.

From the South - from the Midlands and South Wales, continue on the A5. At the Llangollen A5 turn, continue on the A483 (Wrexham) until A55 (Conwy). Exit the A55 at junction 26 to St Asaph Business Park (Parc Busnes Llanelwy). At the first roundabout, c 400m take the 3rd exit. Glyndwr University St Asaph is on your left.

You can plan your route online using one of the free route planners - examples are [The AA](http://www.aa.com) or [The RAC](http://www.rac.co.uk) - the postcode is LL17 0JD

## Parking

Visitor car parking is available in front of Glyndwr University. Parking is free of charge.

## 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>.

## Facilities

Toilets are situated on the ground floor beneath the stairway and on the first floor at the top of the stairway.

## Safety and emergency procedures

1. Upon hearing the fire alarm, which is a continuous, high pitched sound, vacate the building by the nearest Fire Escape door.
2. Do not attempt to put out the fire, unless it is absolutely necessary for you to vacate the building.
3. Do not run, but move quickly.



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4. Do not use the lifts
5. Meet at the Fire Assembly Point, located at the far end of the main car park.
6. Do not re-enter the building until authorised by an OptIC Fire Warden.

Fire evacuation plan signs are wall mounted in numerous locations around the facility. Please familiarise yourself with the nearest fire exits.

## Medical services

Some medicines are available over the counter from pharmacists. For medical advice, try NHS direct by telephone on 0845 4647 (24-hour within the UK) or [nhsdirect.nhs.uk](http://nhsdirect.nhs.uk). Reciprocal arrangements with the UK allow residents of some countries to receive free emergency medical treatment. Most doctors' surgeries have a daily drop in hour or go to the Accident and Emergency department at a hospital for emergency treatment.

## First aid

If you fall ill or injure yourself during the conference, please report the incident to a member of staff. In case of serious injury, paramedics will be called. The closest hospital is Glan Clwyd Hospital located approximately a 5 minute drive from OptIC Glyndwr.

## Emergency services

As in all major cities, visitors should be aware of their personal safety. In an emergency, the police, fire or ambulance services can be reached from any phone by dialling 999.

## Smoking

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

## Behaviour and conduct

The Institute of Physics reserves the right to charge in full for loss or damage to buildings and property.

## 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.

## Local amenities

The restaurant at Glyndwr University, where you can purchase snacks and drinks, is open daily from 08:00 – 15:30.

## General information

### Money

Britain's currency is the pound sterling (£). The closest ATM is a garage off the A55 opposite the Talardy Hotel. Alternatively, the co-op at the other end of the business park is less than a 10 minute drive away. Participants without access to a car are encouraged to bring sufficient cash with them to the conference.

### Electricity

British electrical standards are 50Hz 230 volts, so some North American and European electrical devices may require converters; all will require plug adapters.



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## Souvenirs

There will be an opportunity to purchase souvenirs from the reception area. Cash and credit cards will be accepted – for card payments you will need to provide your address.

## IOP membership

Non-member registrants attending this conference will automatically become affiliate members of the Institute of Physics for 12 months and will receive copies of Physics World. As an affiliate member you will be entitled to attend all conferences at the members' rate for the period of your membership and to use MyIOP – the member-only network.

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.

Membership of the Institute of Physics is open to all those with an interest in Physics. For further information, please visit <http://members.iop.org> or email [membership@iop.org](mailto:membership@iop.org).

## Complaints

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 the issue as soon as possible.

## Exhibitor list

- Denbighshire County Council (stand 3)
- Hiden Analytical Ltd (stand 8)
- Institute of Physics (stand 5)
- Instron (stand 9)
- Kurt J Lesker Ltd (Stand 2)
- Scanwel (stand 10)
- Thermal Vision Research Ltd (stand 18)
- Torr Scientific Ltd (stand 1)
- Zwick Roell (stand 7)



**Denbighshire County Council (stand 3)**



**Hiden Analytical Ltd (stand 8)**

For 30 years Hiden Analytical has been a global leader in the design and manufacture of scientific instruments for research, development and production applications. In vacuum, gas, surface and plasma processes our quadrupole mass spectrometers have gained worldwide recognition for their precision and outstanding performance.



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## **IOP** Institute of Physics

### **Institute of Physics (stand 5)**

The Institute of Physics 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.



### **Instron (stand 9)**

Instron is a leading provider of testing equipment for the material and structural testing markets. Instron's products are used to test the mechanical properties and performances of various materials, components and structures in a wide array of environments. Additionally, Instron offers a broad range of service capabilities, including assistance with laboratory management, calibration expertise and customer training.



### **Kurt J Lesker Ltd (stand 2)**

KJLC is a global leader in the manufacture and design of vacuum technology products, providing solutions for research and production applications.



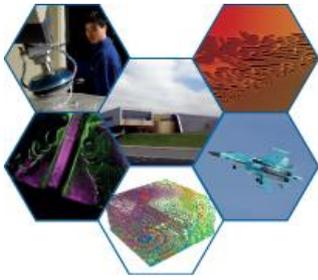
### **Scanwel (stand 10)**

Scanwel manufacture and distribute components and systems to end users and o.e.m.s in academia, government laboratories and industry. Our products find application in the production and development of advanced materials and processes in a number of high technology fields, including: nanotechnology, microelectronics, storage media, energy production and bio-medical and basic materials research of metals, oxides, polymers, coatings, etc. We provide our customers with unique tools to solve challenging scientific and analysis problems and accelerate the development of new materials and products.

## **Thermal Vision Research**

### **Thermal Vision Research Ltd (stand 18)**

Thermal Vision Research are the UK suppliers of FLIR thermal image cameras for research and development. From NDT (non-destructive testing), composites research, micro-electronics, paper processing, automotive, plastics, R&D and pure science applications, you'll find Thermal Vision Research Ltd has the thermal imaging answer you need. Beyond light we see heat...



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**Torr Scientific Ltd.**  
Specialists in UHV,  
Optical and  
X-ray Components

## Torr Scientific Ltd (stand 1)

Torr Scientific manufactures X-ray anodes for XPS and XRF systems, the widest range of UHV Viewports including anti-reflective coatings for laser applications. Phosphor screens for RHEED and LEED applications and UHV/Vacuum fabrications are also manufactured. Facilities include vacuum furnaces, TIG welding, helium leak testing, thin-film coating systems and a UV-Vis-NIR spectrophotometer.

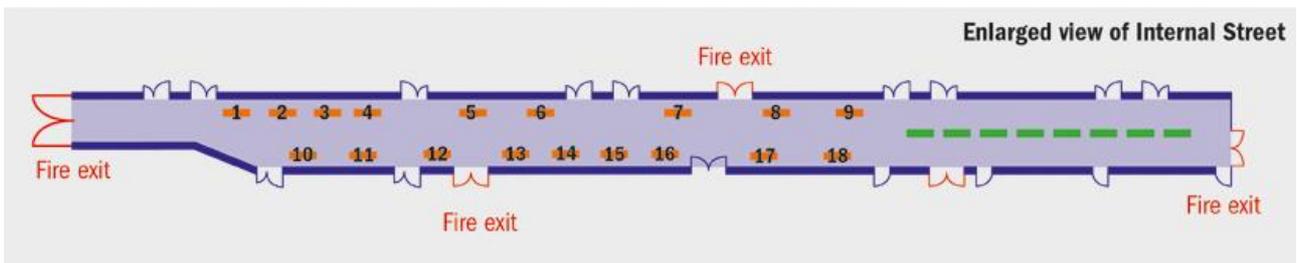


## Zwick Roell (stand 7)

Zwick Roell is a leading, global supplier of materials and component testing equipment. Our systems are employed in R&D and Quality Assurance in over 20 different industry sectors. We offer a wide range of both static and dynamic testing equipment in addition to hardness, pendulum impact and melt flow index testers.

## Floor plan

The exhibition will be held alongside the posters and catering.



## Co-sponsors

**IOP** Institute of Physics  
Thin Films and Surfaces Group





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ENGINEERING INTEGRITY SOCIETY



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