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UKSAF Winter Meeting 2010

Energy and the Environment

- the applications of surface analysis -

Wednesday 13 January 2010

Host: University of Bristol

Venue: At-Bristol, Harbourside, Bristol, BS1 5DB

As the global financial turmoil subsides, attention is turning to ways to ensure that future economic growth is based on greener and more sustainable principles. The environment therefore remains near the top of the agenda for the G-20 leaders, as demonstrated in their statement issued after the recent Pittsburgh summit. http://www.g20.org/Documents/pittsburgh_summit_leaders_statement_250909.pdf

As part of this policy, improved methods for energy generation, storage and conservation are continually being sought, owing to their dramatic implication for climate change and global warming. Science and technology will identify the problems and offer the solutions, and understanding the surface properties of materials is an essential part of the jigsaw. As a result, surface analysis by established and novel methods will continue to have a major role to play in both research into and practical implementation of cleaner technologies.

Our host, the Interface Analysis Centre (IAC) <http://www.iac.bris.ac.uk/> at the University of Bristol is a fully equipped technical centre specialising in just this type of surface and materials analysis. Operating successfully since 1990, it has a multi-million pound range of analytical instruments at its disposal. As well as consultancy and analysis focused on industrial problem solving, the IAC performs a wide range of research activities, both academic and commercial

The Meeting is being held at At-Bristol <http://www.at-bristol.org.uk/>. Explore-At-Bristol is one of the UK's most exciting hands-on science centres, with interactive exhibits, special exhibitions, a planetarium show and a live science team for fun experiments and activities. A registered charity, Explore runs formal and informal learning programmes and aims to make science accessible to all.

At-Bristol is located on Bristol's historic Harbourside, in an innovative building incorporating a listed railway goods building built at the end of the 19th century. It is linked to the Harbourside waterfront and the city centre <http://www.bristol-link.co.uk/entertainment/harbourside.htm>. There are cafés, restaurants and bars, and the open spaces feature public artworks including water and light features and sculptures. The public art has been themed around reflection and exploration to complement the rich architectural heritage of the site and to extend the themes of Explore by encouraging people to look at the world in a new way.

Attractions in the area include Brunel's ss Great Britain (the first steam-powered ocean-going vessel with a screw propeller and iron hull), and the Arnolfini (a centre for contemporary arts featuring exhibitions, film, live art, dance, music and literature).

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Provisional Programme

Oxidation of Chlorine-Containing Compounds over Fly Ash Surfaces

Dr Philip Davies, School of Chemistry, Cardiff University

Lithiated Nanoparticle Diamond and its Application to Energy Conversion

Dr Neil Fox, Department of Physics, University of Bristol

Natural and Manufactured Nanoparticles in the Environment

Professor Jamie Lead, School of Geography, Earth & Environmental Sciences, University of Birmingham

Adsorption on to Nanoparticles in Nuclear Waste Processing

Dr Tom Scott, Interface Analysis Centre, University of Bristol

X-rays, Electrons and Crude Oil

Dr Graham Smith, Shell Global Solutions (UK)

Application of Modern Surface Analysis Techniques to the Development of Advanced Fuel Cells

Dr Richard Smith, Johnson Matthey Technology Centre

Characterisation of Solar Cells and Batteries

Dr Andreas Thissen, SPECS GmbH, Berlin

Instrumental Developments for High Spatial Resolution AES

Dr Andrew Walker, Shimadzu Research Laboratory Ltd.

Meeting Fee: The fee is £70 (£40 for students/unemployed/retired members). There will be an increase in the Meeting fee for any delegate registering after 23 December 2009 (see registration form for details).

Registration: Delegates should return the attached Registration Form by post in the usual way. Alternatively, on-line registration and credit card payment of the Meeting fee will be possible via the UKSAF website <http://www.uksaf.org/home.html>. If you choose to register via the website, please do not return the attached form.

Accommodation: Unfortunately accommodation cannot be booked via the UKSAF website.

A number of rooms have been provisionally reserved at the adjacent Hotel Ibis. Hotel Ibis (Bristol Centre), Explore Lane, BS1 5TY
<http://www.ibishotel.com/gb/hotel-5547-ibis-bristol-centre/index.shtml>

To book one of these rooms for Tuesday 12 January at a price of £65 (Bed & Breakfast), please ring the hotel direct (0117 989 7200) and quote Reference 136706 & University of Bristol. You will be asked to provide your contact details and will need a credit card to guarantee the booking. Rooms can be cancelled without charge up to 10 January 2010, otherwise you will be charged the full cost of the room. Any rooms not booked by 1st January 2010 will be released.

Rooms can also be booked at this hotel through the normal Ibis reservation website where different rates and cancellation policies will apply depending on availability. Please note that there is more than one Ibis hotel in Bristol!
<http://www.ibishotel.com/gb/home/index.shtml>

There are also many other hotels close to the meeting venue, including:-

YHA Bristol, Narrow Quay, BS1 4QA (guide price £20)
<http://www.yha.org.uk/find-accommodation/south-west-england/hostels/Bristol/index.aspx>

Travelodge Bristol Centre, Anchor Road, BS1 5TT (guide price £35 - £60)
http://www.travelodge.co.uk/search_and_book/hotel_overview.php?hotel_id=78

The Bristol Hotel, Prince Street, BS1 4QF (guide price £95)
http://www.doylecollection.com/locations/bristol_hotels/the_bristol_hotel.aspx

Bristol Marriott Royal Hotel, College Green, BS1 5TA (guide price £130)
<http://www.marriott.co.uk/hotels/travel/brsry-bristol-marriott-royal-hotel/>

Further options can be found at the Bristol tourist information website:-
<http://visitbristol.co.uk/site/where-to-stay>

Travel to Bristol:

By Rail: The nearest mainline rail station is Bristol Temple Meads (1 mile). Details of train times and prices can be found at several websites including www.thetrainline.com.

By Air: The nearest airport is Bristol International Airport (10 miles). Routes and timetables for many low cost airlines can be viewed at www.skyscanner.net.

The express coach from the airport to city centre is Service 330 or 331 (£9 return). Both go to Temple Meads railway station (25 minutes), but Service 330 also has a later request stop directly outside At-Bristol (45 minutes).
<http://www.bristolairport.co.uk/getting-to-bia/by-airport-express-link.aspx>

Travel to At-Bristol:

At-Bristol is on the main A4 (Anchor Road, BS1 5DB) and is signposted once you are near the city centre.

Details of bus services, river ferries, local directions and maps of the surrounding area can all be found at <http://www.at-bristol.org.uk/visit/Default.htm>.

A taxi should cost about £20 from the airport and about £7 from Temple Meads railway station.

By Road:

From M5 (South), exit at Junction 18, follow signs A4 (Portway) towards the city centre. Shortly after veering right at a roundabout on to Anchor Road, and just before you reach the venue, turn right on to Canon's Way. Follow the road round to the left and then straight on into the Millennium Square car park.

From M5 (North) or M4, follow the M32 direct to the city centre. Then follow signs A4 (Avonmouth) until you reach the venue. Canon's Way for the Hotel Ibis and Millennium Square car park is a turning on the left just after At-Bristol.

Parking:

There is no public parking at At-Bristol or the Hotel Ibis, but the nearest public car park is only a few minutes walk away at Millennium Square (BS1 5LL). This is an underground car park and not the above ground multi-storey car park that you will pass as you approach your destination. Standard rate is £10 for 8 hours.
<http://www.at-bristol.org.uk/Open/carpark.htm>.

The Hotel Ibis also uses the Millennium Square car park. There is a preferential 24-hour parking rate (£11). After parking as normal, take your ticket to reception for validation.

When you leave the car park on foot and arrive back at ground level, the Hotel Ibis is in the north-west corner of Millennium Square (across the service road from the planetarium). At-Bristol runs along the northern side of Millennium Square, with its entrance round to the right.

INVOICE / Registration Form

VAT receipts cannot be provided as there is NO VAT content in the costs of the Meeting.

Before 23 December 2009: delegate rate £70 student/unemployed/retired rate £40

Payment should be in GBP Sterling in advance. There is a deadline of 23 December 2009 for receipt of the reduced rate meeting fee of £70 / £40.

From 24 December 2009 to 8 January 2010 the fee will be increased to £80, and the fee for delegates paying on 9 January 2010 or later will be £90. The committee regrets the introduction of this policy, but has been forced to implement this procedure due to persistent late payment of meeting fees by some members. The Meeting fee for all students is £40. Delegates who are not existing members of UKSAF will be charged an additional one-off joining fee of £10, which should be added to the meeting fees specified above.

Please complete and send to:-

Dr Keith R Hallam (UKSAF Treasurer)
Interface Analysis Centre, University of Bristol,
Oldbury House, 121 St Michael's Hill,
Bristol, BS2 8BS, England

e-mail: k.r.hallam@bristol.ac.uk
Tel: + 44 (0)117 331 1173
Fax: + 44 (0)117 925 5646

Cheques should be made payable to "UK Surface Analysis Forum".

Name of Delegate(s)

_____ Amount £
_____ Amount £
_____ Amount £

Please note the above rules on Meeting fees.

_____ TOTAL £

Address

Contact E-mail

Tel.

Fax.

Please indicate any special dietary requirements below for lunch on Wednesday.

A cheque is enclosed/in the post (*please delete as appropriate*)

Signed: _____

Date: _____