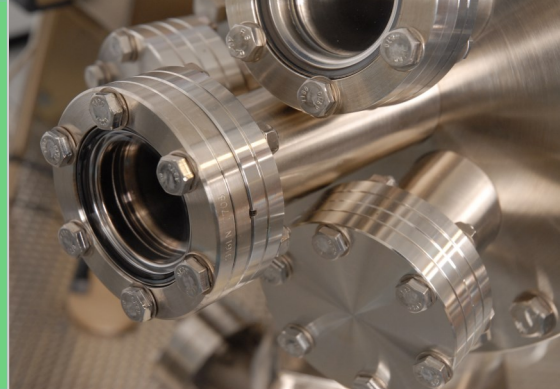


Date: Thursday 15th October 2015

Venue: Lounge One, Ricoh Arena, Phoenix Way, Coventry CV6 6GE



PROGRAMME

08:30 Registration opens in the atrium *

09:35 Opening remarks

SESSION 1 | Semiconductor Materials

09:40 INVITED SPEAKER

Electronic structure and properties of transparent conducting oxide semiconductors

Prof Chris McConville, *University of Warwick*

10:10 INVITED SPEAKER

Vacuum deposited ionic oxide semiconductors for thin film transistors and solar cells

Dr Kham Niang, *University of Cambridge*

10:30 Nanoparticle polymer composite thin-films in the mid infrared

Timothy Threadgold, *University of Reading*

10:50 Supporting the research of graphene and other emerging 2D materials

J. Patrick Frantz, *PlanarTECH*

11:20 Tea/Coffee Break

SESSION 2 | Metal Oxide

Nanoparticules and Thin Films

11:40 INVITED SPEAKER

Titania- and Titanium Nitride- based functional films by magnetron sputtering processes

Prof Peter Kelly, *Manchester Metropolitan University*

12:10 Catalytic nanoparticles in solid oxide fuel cells based on triode operation

Dr Vicky Broadley, *Mantis Deposition*

12:30 Creating self-healing moisture barriers by vacuum plasma

Dr Dermot Monaghan, *Genco*

12:50 Batch and roll-to-roll Atomic Layer Deposition (ALD) processing for ultra-barrier and other applications.

Dr Alf Smith, *CPI*

13:10 Lunch break and poster session

Exhibition remains open until 16:00

PROGRAMME CHAIR

Dr Mark Baker

Mechanical Engineering Sciences, University of Surrey.

PROGRAMME CO-ORDINATOR

Hayley Brown

Plasma Quest Ltd, hayley.brown@plasmaquest.co.uk

TECHNICAL COMMITTEE

Dr Zoe Barber

Materials Science & Metallurgy, University of Cambridge.

Prof Peter Kelly

Head of Surface Engineering Group, Manchester Metropolitan University.

ATTENDEE REGISTRATION

This meeting is offered free-of-charge, please register as an attendee at your earliest opportunity.

Previous attendees: You may log back into this system - your profile remains in the system from attendance at previous events.

PROGRAMME CO-ORDINATOR

Hayley Brown

Plasma Quest Ltd, hayley.brown@plasmaquest.co.uk

SYMPOSIUM REGISTRATION ADMINISTRATION

Vacuum Symposium Secretariat; email: info@vacuum-uk.org

Co-located with

VacuumExpo

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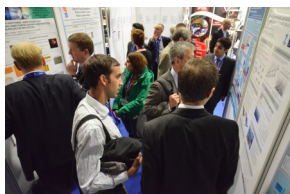
Functional Thin Films

Date: Thursday 15th October 2015

Venue: Lounge One, Ricoh Arena, Phoenix Way, Coventry CV6 6GE

*Refreshments: Coffee/drinks can be purchased at the start of the day at the Atrium Café. Once the exhibition opens there are two additional cafés in the hall. You will be provided with a complementary coffee voucher to use in your break at the VS Coffee Service Point (see floorplan).

Call for Posters



We particularly invite contributions from poster presentations in the following thin film and application areas:

Smart Materials - Optical Coatings - Display Technologies - Active Devices in the Fields of Opto-Electronics -

Photovoltaics - Flexible Electronics - Photocatalytic Coatings - Sensors, etc.

Posters are not limited to Functional Thin Films and we invite contributions which may be on any vacuum related topic (eg. thin films, plasma technology, mass spectrometry etc.).

Prospective poster presenters should contact submit their abstract by **11th October 2015**.

A prize for the best poster will be presented by the Vacuum Symposium and is sponsored by: **oerlikon leybold vacuum**

REGISTER AND CONTRIBUTE ONLINE

To respond to this Call for Abstracts please go to **WWW.VACUUM-UK.ORG** and register to attend. This will lead to "Do you want to submit a paper questions" and an easy process follows online.

PLEASE SUPPORT THE EVENT - TELL YOUR COLLEAGUES!

COMMENTS FOLLOWING A PREVIOUS CONFERENCE:

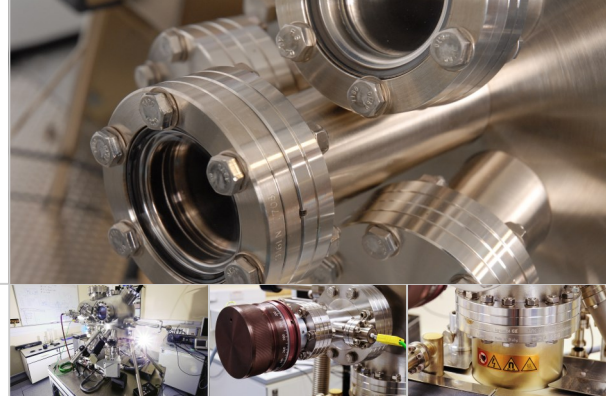
"I was invited to give a talk at a previous Functional Thin Films meeting at the Vacuum Symposium. My talk was titled "Effects of CdCl₂ treatment on ultra-thin MOCVD-CdTe solar cells" and it complemented well with other topics discussed at the meeting. Other more diverse research areas were also presented, such as novel thin film processing, roll-to-roll large scale deposition and thin film characterisation.

I met new contacts at the meeting as well as bumping into old acquaintances, very useful. I will definitely be attending this meeting at future Vacuum Symposiums." **Dr Andrew Clayton**, Centre for Solar Energy Research, Glyndŵr University

A MEETING AT THE 6TH VACUUM SYMPOSIUM

Please watch the website for updates.

More on the symposium at: www.vacuum-uk.org



VACUUM SYMPOSIUM
a forum for scientists, academics, technicians and industrial users

14TH & 15TH OCTOBER 2015 . COVENTRY UK

Vacuum symposium UK aims to address cutting edge issues associated with Vacuum Science Technology and Applications. This two-day event fosters a multidisciplinary environment that cuts across traditional boundaries between disciplines and features:

- Technical Sessions
- Poster Sessions
- Training Courses
- Exhibition

Other programmes:

RGA12: Advances in Mass Spectrometry for RGA

Emerging Technologies in Vacuum Science

Technical Plasma Workshop (TPW 2015)

.. and training courses too

A meeting from Enlighten:

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