



Thin Film and Coating Technologies for Science & Industry - from fundamental research to applied coatings

Wednesday 11th October 2017 • Ricoh Arena, Coventry, UK

09.00 Registration opens in the atrium

09.25 **Welcome and opening remarks**

SESSION 1: CHAIR: Dr Mark Baker

09.30 **Tribological coatings: different applications demand specific solutions**
Professor Robert Wood, *University of Southampton, UK*

10.00 **Lightweight, high efficiency, PV solutions for Unmanned Aerial Vehicles (UAVs)**
Dr Andrew Johnson, *IQE plc, Cardiff, UK*

10.30 **Reactive Deposition -Enabling Enhanced Thin Film Performance**
David Sanchez, *Materion Corporation, Martinez, USA*

11.00 Refreshment break - tea and coffee sponsored by **EDWARDS**

11.15 **Direct monitoring of vacuum residual gases at process pressures up to 1mbar**
Dr Joe Brindley, *Genco Ltd, Liverpool, UK*

11.45 **Advancements in the manufacture of roll-to-roll smart and innovative devices by addressing production scalability and technology challenges**
Dr Nessima Kaabeche, *Emerson & Renwick Ltd, Accrington, UK*

12.15 Lunch break

SESSION 2: CHAIR: Dr Alf Smith

13.30 **Growth of epitaxial oxide thin films on graphene towards fabrication of graphene only devices**
Dr Peter K. Petrov, *Imperial College London, UK*

14.00 **Synergy between CVD and ALD for permeation barrier applications**
Dr Adrianus Indrat Aria, *Cranfield University, UK*

14.30 Refreshment break - tea and coffee sponsored by **EDWARDS**

14.45 **CVD amorphous diamond coatings for extreme performance applications**
Chris Walker, *Diamond Hard Surfaces, Towcester, UK*

15.15 **Plasma enhanced Chemical Vapour Deposition of silicon nano-structures and their applications in electronic and energy related Devices**
Dr Shashi Paul, *De Montford University, Leicester, UK*

15.45 Concluding comments

15.50 Close of meeting and **POSTER SESSION** in the exhibition hall

A poster prize will be awarded at 16.30 for the best poster.

The exhibition remains open until 5pm



Register in Advance. Free Event

SUPPORTED BY

IOP Institute of Physics
Ion and Plasma Surface
Interactions Group

IOP Institute of Physics
Thin Films and Surfaces Group

PROGRAMME CHAIR

Dr Mark Baker
Reader in Surface Science and
Engineering, University of Surrey.

**TECHNICAL PROGRAMME
COMMITTEE**

Stuart Allan
Technology Director, Artemis Optical
Ltd, Plympton.

Dr Hayley Brown
Business Development Manager,
Plasma Quest Ltd, Hook.

Prof Peter Kelly
Head of Surface Engineering Group,
Manchester Metropolitan University.

Dr Alf Smith
Business Development Manager,
CPI, Sedgefield.

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ABOUT THE CONFERENCE

Deposition methods: PVD, CVD, Laser ablation, ALD, plasma processes etc.

Applications: Electronic, energy, optical, tribological, photocatalysis etc.

Partnering innovations with high tech industry: Development to pre-production, emerging ideas... technologies... applications.

Thin films are used in just about every aspect of our lives, from the optical anti-scratch/anti-reflection lens on our spectacles to those out of sight applications, including coatings for application in electronics, wear resistance, energy, photovoltaic and other applications.

This one-day meeting will bring together scientists and technologists with expertise in the design, development, characterisation and production of thin film materials and integrated devices for a broad spectrum of scientific and industrial applications. The aim being to share knowledge, ideas and experiences.

Display Technologies - Optical Coatings - Magnetic Thin Films - Photovoltaics - Barrier Layers - Flexible Electronics - Photocatalytic Coatings - Sensors - Hard Coatings...

Coating Techniques - Characterisation - Properties - Optimisation - Upscaling - Devices...

WHAT TO DO NEXT

- Send this information to colleagues and associates who may be interested
- Register yourself for event updates at and to attend at: www.vacuum-expo.org/subscribe

Once registered you will be sent regular updates.

CONFERENCE REGISTRATION

Registration is OPEN. Free Event

VacuumExpo

Industrial Applications and
Scientific Vacuum Technologies

As at 05/10/17

ADMINISTRATION & ORGANISATION

Brenda Hargreaves, Enlighten Meetings/Xmark Media Ltd
T: +44 1372 750555 Email: info@enlightenmeetings.com

Quality Meetings. Quality Events

**AN ENLIGHTEN MEETING
CONTRIBUTING TO THE
VACUUM SYMPOSIUM**



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

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

**SYMPOSIUM WEBSITE
WWW.VACUUM-UK.ORG**



**The Enlighten
Conference**

PREPARE TO BE ENLIGHTENED

One & two-day programmes, arranged by invitation and are typically high level. Subject matter is topical and application related.

Other meetings include:

Graphene & Emerging 2D
Materials

High Power Diode Lasers &
Systems

Industrial Vision Works!

Optical Engineering & Design

Optical Metrology for
Manufacturing

Silicon Photonics Adoption in UK
SMEs

Surface Analysis

MORE INFORMATION

enlightenmeetings.com