

NanoMaterials



Inspiring Commercial Success
7-9 July, Newcastle Marriott Hotel
Final Programme

Attending companies at NanoMaterials07 included:

AFC Energy, Akzo Nobel, Airbus UK Ltd, BAE Systems, Boots Healthcare Intl, Cenamps, Degussa, Johnson & Johnson, Dupont, Kodak, L'Oréal and many more.

Attending NanoMaterials08

Reasons to attend

- ❖ A unique opportunity to meet with emergent companies, leading academics and large multinationals all involved in commercialising nanomaterials
- ❖ Extensive exhibition covering new nanomaterial products and processes
- ❖ Four comprehensive parallel sessions focused on end use applications
- ❖ 14 designated networking opportunities throughout the event
- ❖ Seven expert led interactive workshops covering issues from dispersion through to water remediation technologies
- ❖ Extensive social programme including a beer tasting drinks reception

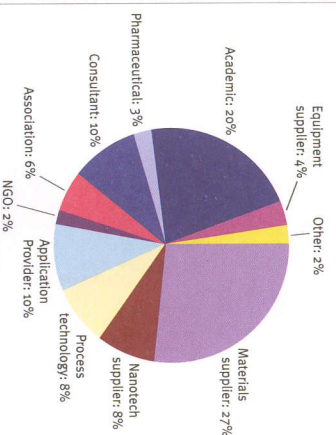
Market focus

NanoMaterials08 is essential if you trade within, supply to or are interested in finding out more about how nanomaterials are affecting key markets in thin film and printed electronics, nanoplastics and nanocomposites, pharmaceuticals and drug delivery and coatings, inks and pigments.

Who should attend?

NanoMaterials08 is an unparalleled opportunity to hear from and gain real understanding of the markets and opportunities nanotechnology promises. At whatever stage of the product lifecycle your business finds itself – harnessing investment, seeking commercialisation or delivering new products to the market, this event provides relevant knowledge and invaluable exposure to leading names. If you're part of the nanotechnology revolution, or intend to be, this unique event cannot be missed.

NanoMaterials07 audience breakdown



Comments about NanoMaterials07

'Well-structured programme – great overview of nano applications. Much effort has been put into the structure of the meeting. Short presentations and encouraging detailed networking outside of the sessions is very helpful.' Huntsman

'The mix and balance of speakers was excellent and well chosen.....' Unilever

'Very little to improve on, everything was very well organised.' Cambridge University

'The whole event was informative and very well organised. Being focussed on the commercialisation of nanomaterials, it was different from other nano events I've encountered.' MacDermid Autotype

About NanoMaterials08

NanoMaterials08 represents a new type of event.

Rather than focusing on the technology and possible benefits, this unique event assesses the most integral part of nanomaterial innovation, namely, commercialisation.

NanoMaterials08 is concerned with removing obstacles to the safe commercialisation of nanotechnology and promotes the rapid exploitation of the hugely beneficial opportunities afforded by nanomaterials.

Grasping the initiative in emergent markets such as nanotechnology is difficult but can be extremely rewarding for those who succeed; NanoMaterials08 has been organised to simplify this process. Experts at this year's event will guide you through the commercialisation of nanomaterials, providing you with insight, knowledge and networking opportunities to develop commentaries on convergent technologies and get one step ahead.

Expert speakers from around the globe have been hand picked to deliver incisive analysis and case studies on a number of issues in four key markets;

- ❖ Thin film and printed electronics
- ❖ Nanocomposites and nanoplastics
- ❖ Pharmaceuticals and drug delivery
- ❖ Coatings, inks and pigments

Alongside the parallel vertical market sessions, industry figureheads will provide an accessible and informative overview of the most important subjects that affect us all. From securing investment and funding and appreciating global markets to defining the future regulatory and legislative landscape, the conference will evaluate the major opportunities and challenges facing the nanomaterials industry.

Your NanoCentral® team



Allen Reid
Business Development Director



Dan Gooding
Business Development Director



Stephen Cash
CEO



Steve Devine
Commercial Manager

Your event organisers

NanoMaterials⁰⁸ is being produced collaboratively by NanoCentral® and IntertechPira – bringing the expertise of both organisations to create an event of real value for the nanomaterials industry.

commercial use of nanomaterials through a coordinated and reliable supply chain, so business can maximise profits.

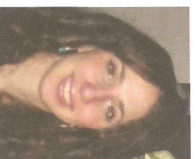
IntertechPira

IntertechPira is organising the second nanomaterials conference on behalf of NanoCentral®. IntertechPira provides leading events, training, online information and publications across a variety of zeitgeist issues and disruptive technologies, including nanomaterials. Having established a reputation as a successful conference provider in this area, IntertechPira is responsible for the marketing, management and on-site operation of the event.

NanoCentral®

NanoCentral® was set up in July 2006 to be the UK's pivotal gateway for nanomaterials, enabling potential businesses looking to improve existing products and develop new products using nanomaterials to connect with a network of key technology providers. Our aim is simple, we want to accelerate the safe

Your IntertechPira team



Corinne Pentucci
Marketing Manager



Ben Eatwell
Conference Producer



Stacey Ludlow
Conference Coordinator



Caroline Potapa
Exhibition, Sponsorship and Sales Manager

'Nanomaterials is the perfect event to know what are the needs of industry and what nanotechnology can do about it. At the NanoMaterials⁰⁷ event our company found real industry customers looking for real solutions, and the whole event is focused on networking and building bridges between different stakeholders. In fact, our experience at Nanomaterials didn't finish with the fair. We have kept good relations with different partners that we found there and that's why we are going this year again'.

Luis Alonso, Nanogap

The exhibition: how to get involved

Your route to the industry's leading decision makers

This year you can reach more than 400 of the world's foremost international leaders in nanomaterials. These are the most innovative developers, R&D experts and senior academics you'll find in nanotechnology - those who work on the cutting-edge of nanomaterials who make investments, develop technology, form alliances and take decisions that alter the international landscape of this emerging industry.

This expert audience is coming together in one place expressly for the benefit of meeting their colleagues from around the world, debate issues facing the industry and to view and review the products, services and solutions available from our conference sponsors and exhibitors. The global reach and outstanding reputation of the NanoCentral® event assures that the attendees will comprise a broad range of top-level industry

professionals and business contacts. The quality of the delegates means that exhibiting at NanoMaterials⁰⁸ will provide you with high quality leads – leads that may translate into a direct return on investment.

There are a number of opportunities available to sponsor and there are a limited number of exhibition opportunities that will enable you to gain exposure to this audience.

With over 10 companies already confirmed as participants in the exhibition there are only a limited number of opportunities and booths remaining.

For information regarding the availability of the remaining exhibition booths at this annual conference please contact Caroline Potapa on tel: **+44 (0)1372 802101** or email: **caroline.potapa@nanomaterials08.com**

Workshops

Sponsored by



At NanoMaterials08 we have handpicked seven key topics and have invited expert tutors to guide you through the complexities and intricacies of these. The following workshops, sponsored by NanoKTN, will allow delegates to further expand their knowledge of important topics in the nanomaterials industry, making the most of their NanoMaterials08 experience.

7 July, 8.30–12.00: Workshops 1–3

Workshop 1 / Room 1: Synthesis, characterisation and properties of gold and silver nanoparticles

From the history of metal colloids, through preparative methods, surface functionalisation, properties and applications, Prof Mathias Brust of Liverpool University and Prof Luis Marzan of Vigo University will provide a one stop shop for all your metal nanoparticles needs.

Prof Mathias Brust, Centre for Nanoscale Science, Liverpool University

Workshop 2 / Room 2: Nanomaterials: Safety, health and the environment

Dr Robert Aitken, Director of Strategic Consulting at the IOM will provide an in depth, interactive session on how nanomaterials fit into the current SHE framework and how they may be affected in the future.

Dr Rob Aitken, Director of Strategic Consulting, IOM

Workshop 3 / Room 3: Securing investment in nanomaterials

It is supposed to be 99% perspiration to get an idea to fruition. However, these days it seems most of the sweating goes into securing funding. Get the opinion of a leading venture capital investor and gain the upper hand the fight for commercialisation.

Andre Moreira, Investment Manager, BASF VC

7 July, 14.00–17.00: Workshops 4–7

Workshop 4 / Room 1: Dispersion and stabilisation of nanoparticles

Dr Gul Ozcan-Taskin of the BHR group, Dr Paul Reynolds of the Bristol Colloid Centre and Peter Livesey from Lubrizol Advanced Materials will discuss and assess the forefront of research into the dispersion and stabilisation of nanoparticles. This approach will highlight critical issues in the processes and chemistry of dispersion and stabilisation.

**Dr Gul Ozcan-Taskin, BHR Group
Dr Paul Reynolds, Bristol Colloid Centre
Peter Livesey, Lubrizol Advanced Materials**

Workshop 5 / Room 2: Nanomaterials – regulations and legislative directions

Steffi Friedrichs from the NIA will lead a discussion focused forum on the current status of legislation in Europe on nanomaterials and how this may change in the coming years.

Steffi Friedrichs, Director, NIA

Workshops

Workshop 6 / Room 3: Characterisation and metrology of nanoparticles

Join Elwood Vogt of CEMMNT and leading nanotech service provider Intertek MSG as they present an interactive workshop on characterisation and metrology. As manageable particle sizes diminish, the need for reliable and precise measurement has never been so important, as has the role of measurement in understanding the structure – property relationships required for successful development of commercial materials.

**Elwood Vogt, CEMMNT
Simon Allen, Intertek MSG**

Workshop 7 / Room 4: Nanotechnology in water remediation

Water remediation is a key market where advances in nanomaterials can really make a difference. This 'mini-conference' will assess the challenges that face the industry today and then present four key technologies which are shaping the future of water remediation. The ultimate goal is to use this event as a vehicle to raise awareness for improved water and all the feedback generated during the discussion will be fed back to funding bodies and key stakeholders.

14:00	Introduction, overview and aims of workshop David Parker, Chemistry Innovation, KTN
14:15	What are the challenges for water remediation? Jeff Hardy, ESEF Manager, Royal Society of Chemistry
14:45	Ozone generation for water purification using nanostructured electrodes Paul Christensen, Newcastle University
15:05	Sodiswater: solar disinfection of drinking water Tony Byrne, University of Ulster
15:25	Afternoon refreshments
15:45	Industrial processes for water remediation Martin Partridge, Johnson Matthey
16:05	Membrane reverse osmosis for desalination Adel Sharif, Surrey University
16:25	General panel discussion
16:50	Summary and close

NanoCentral® Showcase and evening drinks reception

18.00 – NanoCentral® Showcase evening 19.00 – Networking drinks reception

The NanoCentral® Showcase taking place on the evening of Monday 7 July will highlight the extensive capabilities and expertise available through the NanoCentral® Alliance of companies.

The Showcase aims to introduce delegates and exhibitors to the NanoCentral® technology providers, their capability and services on offer,

and to initiate collaborations that span the nanomaterial value chain, from material synthesis, dispersion and formulation, through to application development along with the underpinning measurement, characterisation, safety, health and environment aspects.

The Showcase will take the form of five-minute presentations from Alliance Providers followed by a wine reception, where you will have the chance to ask any questions arising from the presentations, or talk more in-depth about specific needs or requirements.

Programme

Day 1

8 July, morning: Plenary

08.50	Registration and coffee
09.20	 <p>Welcome from the Chair Stephen Cash, CEO, NanoCentral®</p>
09.30	Global markets for nanomaterials Papu Maniar, Advanced Materials and Nanotechnology Manager, Motorola
10.05	NanoCentral®: routes to commercialising nanomaterials Allen Reid, Business Development Director, NanoCentral®
10.40	Plenty of room in the world of neglected dimensions Prof Luis M Liz-Marzan, Nanoparticles and nanostructures group, University of Vigo
11.15	Morning refreshments
11.45	Sustainability and innovation in nanomaterials Speaker TBC
12.20	Gaining venture capital investment Andre Moreira, Investment Manager, BASF Venture Capital
12.55	Closing remarks from the Chair
13.05	Lunch is served for all delegates and speakers

Networking drinks reception

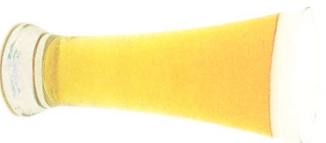
8th July, day 1, 17.55

BEER TASTING



Sponsored by Regional
Development Agency,
One NorthEast

Attend this beer tasting session in the exhibition room to sample Newcastle's local beers whilst discussing the day's proceedings, visiting the exhibition and networking with other delegates.



Regional Development Agency One NorthEast is delighted to sponsor the NanoMaterials08 beer tasting reception and look forward to welcoming all delegates.

For more information about Business Innovation and Inward Investment in North East England please go to:
www.onenortheast.co.uk or
www.investnortheastengland.com

8 July, afternoon: Conference stream

Thin film and printed electronics	Nanocomposites and nanoplastics	Pharmaceuticals and drug delivery	Coatings, inks and pigments
Chair: Russell Clarke, Business Manager, Advanced Materials and Contract Manufacturing, Thomas Swan & Co.	Chair: Tie Lan, General Manager, Nanocor	Chair: Paul Reip, Director, Government and Strategic Programme, Intrinsiq Materials Ltd	Chair: Trevor Rhodes, Head of R&D, Harman Technology Ltd
14.30 Session 1 The future of electronics: a nanotechnology perspective Dr Piers Andrew, Nanodevices Team Leader, Nokia Research Centre	Markets and opportunities for nanocomposites Dr Peter Kruger, Head of Nanotechnology, Bayer Material Science	Nanotechnology in drug delivery and pharmaceuticals Dr David Japociczay, CEO, Medical Research Council	Scaling production: achieving commercialisation Dr Erik Romme, Manager, Akzo Nobel Coatings
15.05 Session 2 Dye sensitised solar cells Dr Nick Dartnell, Researcher, Kodak Research	Carbon nanotube nanocomposites Pasi Keinänen, Chairman, Amroy	How the health and personal care markets will be affected by nanotechnology Dr J.R. Darwent, VP Corporate Research, Unilever	Inkjet printing through thick and thin: printing onto plastic surfaces using nanomaterials John Higgins, Research Associate, Kodak Research
15.40 Session 3 Gold nanoparticles as single electron switches: route to commercialisation Dr Guenter Schmid, Professor, Essen University	Extrusion studies of composite materials Prof Jack Silver, Executive Director, Centre for Phosphors and Display Materials, Brunel University	Nanomedicine: assessing the impact Dr Leonard Fass, Formerly of GE Healthcare	The future of photocatalytic coatings: self cleaning and antimicrobials Dr Shigekazu Kato, President and CEO, Photocatalytic Materials Inc
16.15 Afternoon refreshments			
16.45 Session 4 Carbon nanotubes for nanoelectronics Dr Youngkyu Chang, Principal Research Engineer, Samsung Cheil Industries	Nanoparticle reinforced resins for aerospace applications Dr Christine Alt, German Aerospace Centre	Nano-dispersions for personal and health care Tadros Tharwat, Consultant, Calmia	Modified titanium dioxide: enhanced photoprotection Dr Barry Park, CTO Oxonica
17.20 Session 5 Overview of print techniques for PE Dr Tim Claypole, Director Swansea Printing Technology Ltd & Reader, School of Engineering, Welsh Centre for Printing	Nano-composite thermoplastics in the automotive industry: case study Dr Derek Buckmaster, Global Market Director, Sabic	Polymer therapeutics Prof Ruth Duncan, Professor of Cell Biology and Drug Delivery, Cardiff University	Issues in the uptake of nanotechnology Roy Christopher, Innovation Director, Amcor Flexibles

Programme

Day 2

9 July, morning: Plenary

09.00	Registration and coffee
09.20	Welcome from the Chair Papu Maniar, Advanced Materials and Nanotechnology Manager, Motorola
09.30	Challenges facing the nanotechnology industry: an insurer's perspective Trevor Maynard, Emerging Risks Team, Lloyds of London
10.05	Regulations for nanomaterials Hilary Sutcliffe, Founder, Responsible Futures
10.40	Morning refreshments
11.10	Safety, health and the environment in the UK and Europe Rob Aitken, Director of Strategic Consulting, IOM
11.45	Technology soapbox: emerging companies pitch their products and processes
12.20	Closing remarks from the Chair
12.20	Lunch will be served for all delegates and speakers

9 July, afternoon: Conference stream

Thin film and printed electronics	Nanocomposites and nanoplastics	Pharmaceuticals and drug delivery	Coatings, inks and pigments
Chair, Piers Andrew, Researcher, Nokia	Chair, Peter Krüger, Head of Bayer Working Group Nanotechnology, BMF-CAS-INN Physics	Chair, Jim Darwent, Vice President, Corporate Research, Unilever	Chair, Barry Park, Chief Operating Officer, Oxonica
14.30 Session 1 Flexible substrates for printed electronics Dr Rob Eveson, Research Scientist, Dupont Teijin Films	Nanoengineering fire retardancy Dr Tie lan, General Manager, Nanocor	Coupling medical devices with biological systems Dr Dale Athey, Managing Director, Orla	From material development to added value industrial mass production with examples from coated metal parts Prof Helmut Schmidt, CEO, EPG
15.05 Session 2 Purification, filling and functionalisation of carbon nanotubes Dr Russell Clarke, Business Manager, Thomas Swan	Nanodielectrics: enhanced electrical performance and decoupling of transport properties Dr Gary Stevens, Managing Director, GnosSys	Antiviral nanoparticles Dr Ian Clark, Sales Director, QinetiQ Nanomaterials	Nano-dispersions and coatings: the role of polymeric surfactants Tadros Tharwat, Consultant, Calmia
15.40 Session 3 Novel approaches for particle-based conductive printed electronics Dr Dirk Godlinski, Professor, Fraunhofer Institute	An integrated approach for nanocomposites research and commercialisation Dr Dong-Yang Wu, Programme Leader, CSIRO	Biosensors: at the cutting edge Dr Richard Gilbert, Principal Scientist, EZV	Nano silver halide in sensors, security, imaging and as an anti-microbial agent Dr Trevor Rhodes, Head of R&D, Harman Technology
16.15 Afternoon refreshments			
16.45 Session 4 Case study: Inkjet printing Steve Jones, Business Development Manager, Printed Electronics Ltd	Soft materials: polymer colloid nanocomposites Dr Massimo Noro, Research Scientist, Unilever R&D	µ-Sq beads and hollow silica shells: unique delivery vehicles Dr Daniel Lynch, Technical Director, Exliica	Nano-coatings for textiles, for medical and hygienic applications Thomas Kolbusch, VP, Coatemala
17.20 Session 5 Nanophosphors for displays and lighting Prof Rob Withnall, Professor, Brunel University	Developments in polypropylene nanocomposites Dr Johanne Denault, Research Officer, CNRC	Nanotech in regenerative medicine: from lab to clinic Daniel Green, CEO, Bioceramic Therapeutics	The use of NanoZeolites in dye encapsulation and triggered release applications Dr Wayne Daniell, CEO, Nanoscape
17.55 Session 6	Production of nanopowders with an ICP plasma torch Frederik Cambier, Head of Nanopowders and Plasma Technologies Department, Sirris		Sol gel anti-corrosion coatings: possibilities for commercialisation Prof Robert Akid, Director, Centre for Corrosion Technology

Location

Located in North East England, Newcastle is fast becoming one of the UK's most attractive destinations. A former industrial town and ship building centre, Newcastle has rejuvenated over the last two decades into a mix of the modern and historic, renowned for its excellent

shopping and nightlife. The Metro Centre is Europe's largest shopping centre and the Quayside has a mix of cafes, shops, bars and restaurants. Newcastle is easily accessible with Newcastle International Airport situated 6 miles North West of the city with direct flights to many European cities.

Visitor information



Venue details

Set on 12 acres of parkland near the vibrant city centre and Newcastle International Airport, the Newcastle Marriott Hotel Gosforth Park offers the ideal setting for short breaks and business travel. Contemporary by design, this premier Newcastle hotel blends gracious service with thoughtful amenities that all travellers will appreciate. The chic lobby leads to spacious, beautifully renovated guest rooms featuring luxurious new bedding and convenient high-speed Internet access.

Exquisite dining awaits the discerning palate at the Park Restaurant, winner of one AA Rosette, with live music every Saturday evening. For more casual dining, Chats Cafe Bar tempts with light snacks and beverages. A surprising range of leisure activities include well-equipped gym, tennis courts, pool, sauna and squash courts, or pamper yourself at our beauty salon.

Accommodation

Delegates are responsible for arranging their own travel and accommodation. A limited number of rooms have been reserved for conference delegates wishing to stay at the Newcastle Marriott Hotel at a reduced rate. Rooms are £109 (standard) and £119 (executive) +VAT for single occupancy per room per night including breakfast. Wherever possible rooms should be reserved by 7 June 2008 as rooms cannot be guaranteed and rates are subject to change after this date.

To reserve your hotel accommodation, please contact our agent, Origin Events, direct:
T: +44 (0)845 301 9002
E: info@originevents.co.uk

Please quote **NanoMaterialso8** as a reference.

Contact details

Newcastle Marriott Hotel
High Gosforth Park
Newcastle upon Tyne, NE3 5HN
United Kingdom
Phone: +44 (0)191 236 4111
Fax: +44 (0)191 236 8192
www.mariott.com

1. Registration details

Title:..... First Name:..... Last name:.....
Organisation:..... Position:..... Company business:.....
Address:.....
Email:..... Tel:.....
Postcode:.....

2. Event options and fees

Book before 30 April 2008 and save 10% on the prices below!

Choose your payment package:

Conference fee: £599
Conference academic fee: £199
Workshop 1 fee: £299 Workshop 5 fee: £299
Workshop 2 fee: £299 Workshop 6 fee: £299
Workshop 3 fee: £299 Workshop 7 fee: £299
Workshop 4 fee: £299
Exhibitor 1 fee: £1750 **SOLD OUT**
Exhibitor 2 fee: £1999 Limited availability

Book two workshops and pay £500 (saving £98!)

Team discounts: 2 people – 15% off 3 people – 20% off 4 people – 25% off 5 people – 30% off

3. Payment method

Purchase order No.:..... VAT No:..... VAT will be charged at the UK rate of 17.5%
Change my credit card: American Express ☐ Visa ☐ MasterCard ☐ Card no:.....
Expires:...../..... Security code (CV2): Expires:.....
Cardholder name & address:.....

Cheque/Banker's draft (made payable to IntertechPira) ☐ **Please invoice my company** ☐
NOTE: Invoices cannot be issued without receipt of a purchase order number at the time of booking.

Banker's information for credit transfer payments

£ Sterling: HSBC Bank plc, 100 King Street, Manchester M60 2HD Branch Sort Code: 40-31-24 Account No: 62182610 Swift Code (BIC): MIDGB822
IBAN: GB88 MDL 4031 2462 1826 10
€ Euros: Deutsche Bank AG London Branch Sort Code: 23-30-55 Account No: 13116600 Swift Code (BIC): DEUTGB31
IBAN: GB35 DEUT 4050 8113 1166 00
\$ Dollars: Citibank NY ABA No: 021000089 Account No: 30568988 Swift Code (BIC): CITIUS33

Signature:..... Date:.....
PLEASE NOTE: Credit card details will be necessary if your booking is made less than 10 business days prior to the start of the conference, or if your invoice remains unpaid at the start of the event.

Register now! Book before 30 April 2008 and get 10% off the conference fee!

■ **Phone the team:** +44 (0)1372 802101 ■ **Post:** IntertechPira, Cleeve Road, Leatherhead, Surrey, KT22 7RU, UK
■ **Fax back:** +44 (0)1372 802243 ■ **Visit online at:** www.nanomaterialso8.com
■ **Email:** caroline.potapa@nanomaterialso8.com

*Academic rate for full time students and teaching staff at universities only.

**For more information on our many exhibition and sponsorship opportunities that meet your business goals, please contact:

Caroline Potapa at +44 (0) 1372 802101 or caroline.potapa@nanomaterialso8.com

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