

# NanoMaterials Showcase

*Collaborate to Create Wealth*

**The Heath Runcorn, April 9<sup>th</sup> 2008**

A free-to-attend event organised by [NanoCentral](#), [Chemistry Innovation KTN](#), [Chemicals Northwest](#) and [North West Aerospace Alliance](#), comprising industry presentations, an exhibition and extensive networking opportunity.

## Why Nanomaterials

In a world where products are becoming commoditised in many market sectors, it is becoming increasingly difficult to sustain competitive advantage. Nanomaterials offer enormous potential to add value to brands, reinvigorate products nearing the end of life, and create entirely new products to meet evolving needs. For manufacturers, nanomaterials can shorten the production process, saving energy and raw materials and increase efficiency.

The incorporation of nanomaterials into every-day products is forecast to play an increasing crucial role across a diverse range of applications and market sectors including plastics, coatings, electronics and healthcare. Even at its simplest level, far removed from the science fiction world of nano-robots, success has the potential to result in significant commercial benefit.

However, the introduction of nanomaterials in the UK is being hampered by a number of issues including; the need to identify a connected value chain that covers all process steps, concerns about health and safety and a significant number of manufacturers unable to connect with the marketplace

## Why Attend

This event will address these issues and will bring together organisations that span the nanomaterial value chain, including:

- Nanomaterial producers
- Nanomaterial dispersion and formulation experts
- Nanomaterial characterisation experts
- Nanomaterial health and safety experts
- Chemistry-using Industries – including traditional chemical industry, home and personal care, paints and coatings, adhesives and sealants, pharmaceuticals, bioscience, agrichemicals, catalysts, fuel additives, healthcare, polymers, plastics, textiles, packaging, electronics and composites
- Special interest groups, such as North West Aerospace Alliance, with an interest in developing nano-enabled products

This will provide the opportunity to find out who is doing what in nanomaterials in the UK and what facilities and expertise are available. The exhibition and extended networking event will allow participants to make connections and initiate collaborations.

The event is designed to be of value to industrial end-users looking for novel effects and improved product performance in four key areas where commercial exploitation has already been demonstrated.

- i) Improved physical/mechanical material performance – tensile strength, reduced weight, conductivity, flexibility etc.
- ii) Coatings/barriers – reduced permeability, antifouling, antimicrobial, anti-scratch, durability, radiation screening, electronic & SMART effects etc.
- iii) Increased chemical activity (surface area effects)
- iv) Reduction in additive volumes.

## Event Structure

This is a one day event, free-to-attend for industrial end-users. There will be three hours of short presentations in the morning, followed by lunch and an extended exhibition / networking event in the afternoon. To facilitate the networking event, a limited number of table-top exhibition spaces are available at a maximum of £250 each. If you would like to attend, then please follow the link below to register your interest. As we are limited to 100 attendees, it may be necessary to select delegates on the basis of achieving a balance of "end-users" and "providers", relevant to the aims of the event.

[click here to register interest](#)

To register as an exhibitor please email [jenny.hadfield@ciktn.co.uk](mailto:jenny.hadfield@ciktn.co.uk) or call 01928 515662.

## Programme

### 9.00 Registration and Coffee

### 9.30 Conference Introduction, Stephen Cash, NanoCentral

### 9.35 NanoMaterials in the Chemistry-Using Industries – Overview & Commercialisation Case Studies

9.35	Introduction & Overview	Roger Langford	Chemicals North West
9.45	Introduction & Overview	Darren Ragheb	CIKTN
9.55	Practical applications of nanotechnology through coatings on glass	Kevin Sanderson	Pilkington
10.10	Optisol – From healthcare to industrial applications – a case study	Barry Park	Oxonica
10.25	Thin films with anti-scratch properties – a case study	Nigel Holmes	MacDermid Autotype

## 10.40 NanoMaterials in the Aerospace Industry – Overview and Case Study

10.40	Introduction & Overview	Neil Calder	NWAA
10.50	Sol Gel Coating with Nanoparticles	Graham Downhill	Attiger

## 11.10 Coffee

## 11.30 NanoMaterial Technologies, Facilities and Expertise

11.30	NanoCentral Introduction	Allen Reid	NanoCentral
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## NanoMaterials and Synthesis Methods

11.35	Flame Spray Pyrolysis – An open-access facility at Johnson Matthey	Benedicte Thiebaut	Johnson Matthey
11.40	Plasma Synthesis – An open-access facility at IntrinsiQ Nanomaterials	Ian Clarke	IntrinsiQ Nanomaterials
11.45	Ultrasonic methods for synthesising nanomaterials	Graham Ruecroft	Prosonix
11.50	$\mu$ -Sq beads and hollow silica shells	Daniel Lynch	Exilica
11.55	Carbon Nano Tubes and their applications	Stephen Cash	NanoCentral
12.00	Sub nm Powders	Luis Manuel Alonso	NanoGap
12.05	Particle Design	Carl Elmsley	Hosokawa Micron
12.10	Nano Sized Raw Materials	Steven Cartlidge	NanoLake

## Dispersion, Functionalisation & Formulation

12.15	Dispersing nanomaterials	Greg Brown	Lubrizol
12.20	UMPF mixer – an open-access ultra-high energy dispersing facility	Mike Egan	University of Liverpool
12.25	DOMINO nano dispersion consortium	Sat Panesar	BHR Group
12.30	Generic Organic Nanodispersion Technologies	Dave Duncalf	Iota Nanosolutions

## Characterisation & SHE

12.35	Characterisation of nanoparticle containing systems	Simon Allen	Intertek MSG
12.40	Overview of CEMMNT capabilities	Alan Pidduck	CEMMNT
12.45	Overview of SafeNano	Rob Aitken	IOM / SAFENANO
12.50	A new nano accreditation scheme	Keith Robson	AssuredNano

## Application Development

12.55	Nano precipitation and multi layer coatings	Trevor Rhodes	Harman Technology
1.00	A new printed electronics facility	Neil Chilton	Printed Electronics
1.05	Novel Electrospinning Applications	Mansel Williams	The Electrospinning Company

## 1.10 Lunch and Exhibition / Networking session

## 3.30 Close