The IOP Business Forum
The UK’s Innovation Landscape

“Knowledge Transfer Networks & what they can do for you”

Southampton Science Park
Wednesday 25th April 2012

www.iop.org
The KTN family

- Aerospace and Defence KTN
- Biosciences KTN
- Chemistry Innovation KTN
- Creative Industries KTN
- ICT KTN
- Electronics, Sensors and Photonics KTN
- Energy Generation & Supply KTN
- Environmental Sustainability KTN
- Financial Services KTN
- HealthTech and Medicines KTN
- Industrial Mathematics KTN
- Materials KTN
- Modern Built Environment KTN
- Nanotechnology KTN
- Transport KTN
NanoKTN
(Nanotechnology Knowledge Transfer Network)

**Funding:** UK government via Technology Strategy Board

**Purpose:**

to support exploitation and commercialisation of micro- and nano-technologies through:

– Promoting & facilitating knowledge exchange
– Developing supply chain capability
- Raising awareness of nanotechnology
- Providing thought leadership & input to UK policy & strategy

**Members on _connect:** 2950
Key Activities

• Information & Dissemination:
  – Events & Workshops
  – Web site & On-line content on TSB _connect_ platform
  – UK Company Directory

• Brokering:
  – Facilitating partnering and collaboration for research, development and commercialisation

• Representation on UK on National and International Committees

• Cross-disciplinary activities e.g. Special Interest Groups

• International missions
Market-Focused Activity Themes

- **Healthcare & Life Sciences**
  - Pharma - Nanopharm
  - Medical - Nanomed
  - Regenerative medicine - NanoRegen
  - Nano in Medical Devices – NiMeD

- **ICT-Hardware & Electronics**
  - Electronic Devices & NanoSystems
  - Energy Harvesting: micro/nano fabrication
  - Microfluidics, ALD

- **Engineering Applications**
  - Clean Energy (Nano4Energy)
  - Engineering Challenges (HiPerNano)
  - Environmental (EcoNano)

- **Chemicals & Consumer Products**
  - Coatings
  - Food

- **Metrology & Standards**
  - Responsible Nano

- **Nano-Entrepreneurs**
Gartner Hype Cycle (blue) / Rogers Technology Adoption Curve (red)
NanoKTN Events 2012

NanoMission Japan 2012
- 15th-17th February 2012, Tokyo, Japan
- Mission Companies: Kelvin Nanotechnology, Nanoco Technologies, Nanomobile, Promethean Particles & QuantuMDx

Advancing Plastic Electronics with Nanotechnology
- Supported by JEMI & ESP KTN
- 22nd Feb 2012, PETEC, Sedgefield

Nano4Design Workshop – Nano-enhanced Textiles
- Supported by Creative Industries KTN & Materials KTN
- 28th February 2012, London

Nano4Life 2012
- Supported by Stevenage Bioscience Catalyst & HealthTech and Medicines KTN
- 17th April 2012, Stevenage

HiPerNano 2012
- Sponsored by The IET with technical partners: British Composites Society, AAD KTN, The Institute of Metal Finishing, IOM3 Nanomaterials and Nanotechnology Committee and many media partners.
- 24th April 2012, IET: Savoy Place, London

NanoEntrepreneurs London
- In partnership with UCL
- 1st May 2012, Eversheds, London

ICT-Hardware Workshops at S2K
- 19 – 20 June, University of Southampton
- Energy Harvesting fabrication
- 3-5 & 4 semiconductors – recent developments
NanoKTN Dissemination Activity

Dec 2011
- Impact news item issued: ‘NanoKTN Member Wins Prestigious Business Award and Recognised as UK’s Fastest growing Biotech Company – NanoSight receives Business and Technology accolades as company revenue growth reaches more than 800% over the past five years’

Jan 2012
- News item issued: ‘NanoKTN to Highlight Use of Nanotechnology in Plastic Electronics’
- News item issued: ‘NanoKTN Publishes Position Paper on Thermoelectrics’

Feb 2012
- News item issued: ‘Taking Textiles to the Next Level – Nano4Design Workshop on Nano-enhanced Textiles’
- Impact news item issued: ‘Support from NanoKTN Helps Formation of University Spin-Out – University spin-out Nanomerics uses NanoKTN events to take nanotechnology-based products to international audience.’

Further NanoKTN Impact Stories can be found in the printed document distributed in the meeting.
Funding Update

UK Funding/Investment
• SBRI - Stratified Medicine: Determining patient response – (open last week) http://www.innovateuk.org/content/competition/stratified-medicine-determining-patient-response.ashx
• TSB CR&D - Sustainable manufacturing for the process industry £5m (closes 25/4/2012) http://www.innovateuk.org/content/competition/sustainable-manufacturing-for-the-process-industry.ashx
• TSB SMART (was Grant for R&D) (April deadline) – ongoing
• TSB Feasibility - Technology-inspired Innovation £2m (open 12/3/2012) http://www.innovateuk.org/content/competition/technology-inspired-innovation2.ashx

New £125m fund to boost UK advanced manufacturing supply chains - https://connect.innovateuk.org/web/nanoktn/articles/-/blogs/6167759

2012 EPSRC CASE Awards (To be retained by EPSRC ongoing)

TSB CR&D Food Processing and manufacturing efficiency (open 11/6) - http://www.innovateuk.org/content/competition/food-processing-and-manufacturing-efficiency1.ashx

METRC Innovation Awards - funding collaborative research (closes 6/4/12) - https://connect.innovateuk.org/web/collaborative-nanotech/articles/-/blogs/metrc-innovation-awards-funding-collaborative-research

European Funding
• Eumina Fab 6th Call –
• SIINN Eranet - Safe Implementation of Innovation Nanoscience and Nanotechnology (closes 5/6/12) http://www.innovateuk.org/content/competition/siinn-eranet-safe-implementation-of-innovation-nan.ashx
• ENIAC Open call – nanoelectronics – (closes 12/4/12) http://www.innovateuk.org/content/competition/eniac-joint-technology-initiative-initiative.ashx
• NMP 2013 Draft workprogramme (open Jul 12)
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• Thank you for your attention
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