Design for Micro & Nano Manufacture (DfMM) News

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The NoE Patent-DfMM aims to establish a collaborative team to provide European industry with support in the field of "design for micro nano manufacture" to ensure that problems affecting the manufacture and reliability of products based on micro nano technologies (MNT) can be addressed before prototype and pre-production.

DfMM - Micro & Nano Systems event, 1-4 Oct 2007, Lancaster, UK

The meetings are sponsored by the European Network of Excellence in Design for Micro & Nano Manufacture (PATENT-DfMM) and the Europractice Technology Access Initiative "INTEGRAMplus" (**www.integramplus.com**).

The event aims to provide delegates with:

- A forum to assess advances in the field and opportunities for uptake.
- An opportunity to gain awareness of new funding opportunities within the UK and EU FP7 program.
- Solutions for accessing technologies, engineering services and business support.

The first day is an outreach event "A New Technology for a New Industrial Era" and is free of charge. See **http://www.engineering.lancs.ac.uk/microsystems/docs/mnt2007_day1.pdf.** This meeting will be of specific interest to companies who are either users or suppliers of Micro & Nano Systems or interested in engaging with this technology.

Day 2 will focus on Business Development in the Micro & Nano Systems area. New intellectual property development and methodologies associated with design and manufacture will be showcased. The day will also feature a tutorial specifically targeting Market entry, business practice and supply chain management (complete 2 & 3 day courses based on this will be launched later in the year).

The third and fourth days will address "Technical Advances in the Micro & Nano Systems field" and will focus on state-of-the-art in design and manufacturing technologies for Micro & Nano Systems. Key advances in Reliability & Test Engineering, Packaging Technologies and System Integration will be presented together with contributions from the Design Automation, Simulation and Modelling communities.

Whilst being at the University, there is the opportunity for a guided tour of InfoLab21, Lancaster University's world-class research, development and business centre in Information and Communication Technologies (ICT) **http://www.infolab21.lancs.ac.uk**. InfoLab21 offers free ICT support and opportunities for collaboration with businesses.

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CEMMNT delivers new calibration capability for industry

The Centre of Excellence in Metrology for Micro and Nano Technologies (CEMMNT) has expanded its measurement, characterisation and design capabilities for industry to provide extensive calibration and test services through its UKAS accredited partners which include the National Physical Laboratory and Ametek Taylor Hobson. CEMMNT delivers a fast turn-around service to re-certify standard samples, calibrate metrology instrumentation and measure components. New standard samples are available for verifying the performance of stylus, optical, scanning probe, coordinate measuring machines and similar instruments. Artefacts, such as 1-D and 2-D grid plates, linescales and graticules, specifically designed for microscopy instruments can be supplied or re-verified.
Customer samples can be calibrated traceably for critical dimensions, texture, straightness and roundness to internationally recognised standards. A wide range of parts and components can be measured calibrated or certified. Optical lenses, flats and spheres can be tested for form, asphericity and flatness. Dimensions can be determined for engineering components including spheres, plugs, rings, gauge blocks and length bars. Equipment such as autocollimators, angle gauges, polygons, instrument tables, clinometers, prisms and telescopes can all be calibrated and certified.

CEMMNT additionally provides services to calibrate metrology instrumentation either at client sites or in partner centres of excellence.
Contact: **enquiry@cemmnt.co.uk, www.cemmnt.co.uk**

New Consortium Group is launched in Scotland

The Institute for System Level Integration (iSLI), The Scottish Microelectronics Centre (SMC), Optocap and Photonix have announced a collaborative agreement to form a consortium group to engage with emerging technologies companies in the MEMS, biomedical, control electronics, remote sensing and advanced technologies sectors.

As well as providing education and training at post graduate level, iSLI performs MEMS research and development for system level integration using advanced technologies. SMC houses world class technology research and development facilities designed to foster indigenous company growth, Photonix is a world-class Microsystems fabrication facility used by technology companies and academia to drive new ideas and technologies, Optocap develops advanced device packaging solutions for the communications, consumer, industrial, medical and automotive markets worldwide.

This collaboration between four specialist companies sits at the critical interface between the academic and commercial engineering worlds; the benefits to emerging technologies companies will be felt throughout the commercial sector.

To read the complete press release, please visit:
http://www.sli-institute.ac.uk/pdf/news/NewConsortium.pdf

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