



Design for Micro & Nano Manufacture (DfMM) News

web page: <http://www.patent-dfmm.org>

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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.

Towards "Design for Manufacture" Service Clusters

The PATENT-DfMM project has further developed its concept of offering services to industry. Specific "Service Clusters" will be established in discrete areas of "Design for Micro & Nano Manufacture", where a clear need can be identified, especially from small companies. PATENT-DfMM will bring added value to the Industrial community through synergies and distributed critical mass in focused areas formed by these collaborative clusters. These teams can define an offer to the industrial community that may be in the form of training, access to equipment & operating support, design, test, packaging or reliability services, consultancy or prototyping. It is planned to collaborate closely with other projects and existing industrial service providers. Service clusters may –depending on market needs and business opportunities- develop into commercial service organisations (launch a company that is providing services) or keep the format of a collaborative network that works on a project basis. The distinct "service offers" of the clusters are in the definition process currently and will still have to be validated through a market test process which is ongoing throughout 2006. A sub-project on "Business Development" was launched in March 2006 with a draft business plan to be set up by October 2006. PATENT-DfMM partners that are closely working with industry are involved in this activity.

Contact: **Patric Salomon**, 4M2C, Berlin, Germany, E-mail: Patric.salomon@4m2c.com

PATENT/AMICOM Joint Workshop on MEMS Reliability at ESREF Conference, 2 Oct 06, Wuppertal, Germany Abstract Deadline: 31 July 2006

This event will enable the members from two European Networks of Excellence, PATENT and AMICOM, and the participants of the ESREF Conference to share know-how on MEMS Reliability issues. The workshop studies all aspects of MEMS Reliability. Topics include but are not limited to: characterization methods, failure mechanisms, failure analysis, testing techniques and test structures, reliability techniques and methodology, design rules. Contributors should submit a short abstract (1 or 2 pages) including title and authors' affiliation, address and email. The abstract should reflect the significance of the contribution. The exact duration of the talks will depend on the final program.

Please submit your papers to **Ingrid De Wolf**, IMEC, Belgium, E-mail: ingrid.dewolf@imec.be

PATENT-DfMM booth at COMS2006, 27-31 Aug 2006, St Petersburg, Florida, USA

The 11th International Conference on the Commercialization of Micro and Nano Systems (COMS 2006) will be held in St Petersburg, Florida, USA, 27-31 Aug 2006. COMS fosters the commercialization of micro and nanotechnologies and addresses commercialization issues unique to these emerging and disruptive technologies. COMS 2006 will bring together key personnel from all over the world and from every sector of the supply chain, including government representatives, top researchers in the field, educators, relevant publication sources, equipment suppliers, end users, and financial experts. The small tech community gathers at COMS conferences to learn from others, share their own knowledge, discuss and argue points of view - all of which contribute to the advancement of this emerging field. COMS 2006 addresses the issues related to building successful MNT firms, regions and educational programs. An exhibition of equipment suppliers, service providers, product suppliers and consultants will be held in conjunction with COMS 2006. The PATENT-DfMM project will have a joint booth with enablingMNT and MST News.

More information: <http://www.mancef-coms2006.org> or from **Patric Salomon**, E-mail: patric.salomon@4m2c.com

MST News December issue "Remote Training and Engineering in MST", Deadline for Abstracts: 15 Aug 06

Strategies against skills shortage in MST with national or international focus are subject of this issue. Examples should describe training concepts in micro-, nano- or bio- technologies using online modules or distance learning modules. Furthermore, examples of virtual or distributed design and modelling solutions and their use in simulation tools for engineering or educational purposes are of high interest. This issue is specifically supported by PATENT-DfMM. In case you are not sure if "your article" would fit to these topics, please contact:

Patric Salomon (contributing editor of MST News), E-mail: Patric.salomon@4m2c.com

NEXUS Association Re-launched in Switzerland with key participation from PATENT-DfMM

The NEXUS office has been re-located to Neuchatel, Switzerland starting activities as of **1 July 2006**. During an extraordinary membership meeting of the – still small – membership of the new NEXUS Association (Switzerland) that took place in Lausanne on 7 Jul 06, the following people were elected unanimously to the following posts until the next Annual Membership Meeting (AGM):

President: **Thomas Hinderling (CSEM)**

Chairman: **Sean Neylon (Colibrys)**

Vice-Chairman: **Patric Salomon (4M2C)**

Treasurer: **David Holden (CEA-LETI)**

The following members were also elected unanimously to the **Steering Committee**:

Andrew Richardson (Lancaster), **Jean Pierre Dan** (CSEM), **Henning Wicht** (WTC), **Carmen Moldovan** (IMT), **Roberto Della Marina** (Olivetti), **Ayman El-Fataty** (BAE Systems)

Thereon, with the office relocated to Switzerland and with a strong administrative support housed within the CSEM, we hope to re-energise the Nexus activities and provide an efficient and useful core networking services to the European MNT community. The next NEXUS Association Annual Membership Meeting (AGM) is planned to be held in Milan on 29 November 2006 in conjunction with a NEXUS/PATENT-DfMM MWG Workshop on Reliability and Test (27 – 28 Nov) and a NEXUSplus Workshop (30 Nov) to prepare for the first Call of the 7th Framework Programme (FP7) of the European Commission.

Regular updates and latest information will be given through the **NEXUS Email newsletter (E-zine)** and on the website www.nexus-mems.com

PATENT-DfMM and NEXUS MWG Reliability and Test Workshop, 27-28 Nov 2006, Milan/Italy

This "NEXUS Methodology Working Group (MWG) in Reliability and Test" was launched in December 2005 in close collaboration with the PATENT-DfMM project and MEMS Industry Group (MIG) in the US. A joint public workshop is planned with the following topics: 27 Nov afternoon: Tutorials in MNT Reliability and Test 28 Nov all day: MWG Reliability and Test Workshop: Industry Needs, Ongoing Research, Services offered 29-30 Nov all day: NEXUS annual general meeting (AGM) and workshop.

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The publication of this page is supported by the **network of excellence PATENT - DfMM**