

Design for Micro&Nano Manufacture (DfMM)

- News -

Project Coordinator: Andrew Richardson, University of Lancaster, UK, E-mail: a.richardson@Lancaster.ac.uk
PATENT-DfMM website: www.patent-dfmm.org

MEMS Summer School to run 15-17 September 2004 at ISLI, Livingston Scotland

Plans are under way to run a MEMS Summer School at ISLI to publicly launch the PATENT-DfMM training portfolio. The target audience is mainly European engineers who are likely to get involved in MEMS applications, or who are not currently using MEMS as a core technology. Interested students and academics are also most welcome. Presentations will include selected topics from existing or planned PATENT-DfMM training courses, and will address relevant issues in Design for Manufacturability and MEMS Test.

A Tutorial Day (15 Sep) to provide a background in current MEMS technologies will be followed by two days of advanced topics (16-17 Sep) including a Keynote address from a well-known industry speaker. Details of the programme, featuring a variety of industry and academic presentations, will be available soon on the PATENT-DfMM website, and registrations will be handled by ISLI. Livingston is located near to Edinburgh International Airport, so there is a good opportunity to visit Scotland's capital city before returning home.

Contact:

George Bell, Institute for System Level Integration, UK
Leader of the Patent-DfMM Training Task Force
 Email: george.bell@isli-institute.ac.uk

Report from the "Design for Micro & Nano Manufacture" Workshop on 11 May at DTIP, Montreux

❑ **The objective of this workshop**, organised by Patent-DfMM together with the *NEXUS Methodology Working Group "Design Modelling Simulation" (MWG-DMS)*, was to present the project and discuss the needs of organisations expected to be the major users of DfMM methodologies, and also with organisations that could provide inputs into the project's strategy.

❑ **Following two overview presentations from PATENT-DfMM** by project coordinator **Andrew Richardson**, University Lancaster, and **Orla Slattery**, NMRC, the leader of the *Patent-DfMM Design&Modelling Task Force*, a number of external activities related to DfMM were presented. EDA providers participated actively in this workshop with their contributions to the discussion and their presentations: Siebe Bouwstra on Coventor's solution for MEMS Die-and-Package Co-Design at the System Level, Niels Olij with an overview on Phoenix' "Living Database" applied on process flows, and Ridha Hamza from MEMSCAP with a proposal to standardise MEMS process and modelling descriptions. For the research labs, TIMA presented examples for Design for Testability of Microsystems, and the Use of Model Order Reduction for Optimisation of MEMS Devices was discussed by IMTEK. Following a summary from MEMS Industry Group's "METRIC 2003: Focus on Reliability" by Patric Salomon, 4M2C, participants agreed that co-operation with US activities in DfMM could well support European efforts.

The next meeting is planned for November/December. More information and copies of the presentations will be available on the PATENT-DfMM website: www.patent-dfmm.org

Contact:

Orla Slattery, NMRC
Leader of the Patent-DfMM Design&Modelling Task Force
 E-Mail: orla.slattery@nmrc.ie
Patric Salomon, 4M2C
Leader of the Patent-DfMM Networking&Dissemination Task Force
 E-Mail: patric.salomon@4m2c.com

Design for Micro & Nano Manufacture E-Mail Newsletter launched

❑ **PATENT-DfMM has launched a bi-monthly E-mail newsletter** that distributes information from the project, but, in addition to that, will also cover news and reports from worldwide sources that could be of relevance to the DfMM community.

❑ **External contributions** with relevance to DfMM are welcome. Please send announcements of conferences, seminars, reports, and other non-commercial news items to dfmm-news@4m2c.com. The Patent-DfMM News Editor will keep the right to select and edit the information that will be published.

❑ **To register for the newsletter** (free of charge), please send an Email with your complete contact details to dfmm-news@4m2c.com.

Patric Salomon, 4M2C
Patent-DfMM News Editor

Point of Contact for Middle & East European Countries

Within the **dissemination & networking task force of PATENT-DfMM**, the network has established a special point of contact to Middle & East European countries. The National **Institute for R&D in Microtechnologies (IMT-Bucharest)**, appointed for the first

year, has the responsibility to support the Management Board in the task of integrating **partners from Middle & Eastern Europe**, especially in the areas of dissemination, training, and networking activities.

Contact:

Dan Dascalu, E-mail: dascalu@imt.ro
Carmen Moldovan, E-Mail: cmoldovan@imt.ro
National Institute for R&D in Microtechnologies (IMT-Bucharest www.imt.ro), Romania