Presentations Available from PATENT-DfMM / NEXUS Workshop on Design for Reliability and Manufacturability in MNT, 24 Apr 07, Stresa, Italy

This event was co-organised by PATENT-DfMM and the NEXUS Methodology Working Groups "Reliability & Test" and "Design Modelling Simulation" and held in conjunction with the DTIP Design Test Integration and Packaging Conference, 25-27 Apr 2007. More than 30 participants discussed reliability and test problems and design methodologies that might lead to significant improvements.

The following key topics were addressed:

- Reliable Design using Multi-Level Process Verification
- Design for Yield Methodologies
- Reliability & Test issues in Silicon / Polymer Microsystems "INTEGRAM-plus"
- Embedded Test Centre (PATENT-DfMM)
- EURIMEL Reliability Services (PATENT-DfMM)
- Micromachine Centre Activities – Japan
- Failure & Dissipative mechanisms
- EC FP7 & opportunities and where can NEXUS and PATENT-DfMM help

NEXUS and PATENT-DfMM were also co-organising a special session within DTIP on "Opportunities for Cooperative R&D" (25 Apr) and a panel discussion on "Design for Reliability and Test of Microsystems" (26 Apr). The panel featured key industry speakers: Chris Reeves (QinetiQ), Alistair Sutherland (BCF Designs), Ludo Stulens (Philips Applied Technologies) and Andrew Richardson (Lancaster University). The session was moderated by Patric Salomon, Vice Chairman of NEXUS Microsystems Association. Copies of workshop and panel presentations are available from the PATENT website.

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DfMM Workshop, 2 – 4 Oct 07, Lancaster, UK

The PATENT-DfMM project is currently preparing a 3-day DfMM Workshop to be held in Lancaster. This workshop will feature a mix of tutorials, scientific session and an industry-focused workshop with presentations from PATENT, other related research projects and from industry.

Please save the date! Further details will be published on the PATENT-DfMM website in due course.

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PATENT-DfMM had a Successful Third Year EC Review Meeting

As of January 2007, over 70 activities have been launched under the project framework to improve integration, generate new collaborative intellectual property through joint research, secure commercialisation routes for key services and establish the team as a key international cluster. Activities in the first 12 months mainly targeted improved integration within the 4 Virtual Laboratories, the second 12 months has seen more cross laboratory activities and within the third period major achievements have been the launch of three flagship projects,and approval for the creation of clusters of R&D providers (industry and academia) with valuable synergies willing to deliver these capabilities through commercial services. The first industrial contract to these "Service Clusters" has been awarded to the µHUMS activity.

An initial portfolio of services, skills and IPR has been compiled. In 2006 €613k of resource-funded three flagship projects that include:

1. Design for Manufacture of Integrated Bio-MEMS platforms,
2. Reliability of Integrated MEMS that embraces clusters in acceleration factors, package reliability and harsh environments and
3. MEMS for Health and Usage Monitoring Applications.

Phase 1 of these projects was completed Nov 2006 with good results. The concept of Service Clusters to achieve self-sustainability has been explored, developed and approved by all partners. Final ratification of the service cluster concept was confirmed at the annual assembly meeting Jan 2007, Berlin. For more information on DfMM Service Clusters please refer to Europractice News in this MST News issue.

More details are also available within the annual summary report of achievements 2006 of the PATENT-DfMM projects that is available from the PATENT website.

DfMM Contact

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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.

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