



Reliability & Test Engineering Breakout Sessions and Summary

24 April 2007, Stresa

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«Design for Micro & Nano Manufacture (NoE PATENT-DfMM)»

Network of Excellence funded by the European Commission (EC FP6: IST, Unit C2, Contract 507255)

- Meeting Tuesday 24th April, Stresa
 - 30 registrations
 - Presentations:
 - NEXUS & PATENT-DfMM
 - Reliable Design using Multi-Level Process Verification.
 - Design for Yield Methodologies
 - Reliability & Test issues in Silicon / Polymer Microsystems “INTEGRAMplus”
 - Embedded Test Centre (PATENT-DfMM)
 - EURIMEL Reliability Services (PATENT-DfMM)
 - Micromachine Centre – Japan
 - Failure & Dissipative mechanisms
 - FP7 & opportunities

- Health monitoring a key area
 - power control and monitoring? Software data fusion to improve accuracy? Packaging? Integration with Electronics?
 - FP7 ideal for moving forward – STREP or IP key issues
“Integration” “heterogeneous systems community”
“Methodology”
- Embedded test : People centric rather than project – harder to attract resource (ie. Horizontal rather than vertical activity in “EU speak” – need for new types of “services” – ie. Higher level R&D or sophistication.
- Technical “support” communities like NoE’s need to promote themselves differently – through case studies, focus on delivering on real end user requirements.
- Use MWG to act as a user / supplier club for the services like the embedded test centre.

- IDENTIFY STRATEGIES FOR MAINTAINING OR EXPANDING THE COMMUNITY
 - Viability of a sustainable service in Reliability?
 - What is the focus: R&D, Certification of reliability, Service to solve problems,... ?
 - Network-type activity is important to keep collaboration going
- IDENTIFY NEW COLLABORATIVE PROPOSALS THAT THE MWG COULD SUPPORT
 - Sustainable Services will always need to have some research co-funded to generate new IPR to build on
 - Industry would greatly appreciate reliability-orientated research.
- GENERATE RECOMMENDATIONS FOR MOVING FORWARD
 - Move forward on Training Network
 - Address industry needs through research project in reliability
 - Further evaluate a business model of offering reliability-related services

- In the “Embedded Test” area seeing a push towards Health Monitoring. Need industrial drivers for DfT services.
- Need for new, more sophisticated R&D oriented services – PATENT-DfMM moving forward – is this workable?
- Industrial need for “Research” in the Reliability area – BUT funding programs biased towards “Vertical” projects