

# Invitation to NEXUS AGM and Workshops

## 27 – 29 November 2006, Milan, Italy



Dear Nexus member,

As you will already know the Nexus Association has been relocated to Neuchatel, Switzerland and has been operating from there since July 1st this year. In the past decade the Microsystems world has radically changed and since early July a lot of hard work has been undertaken by the Steering Committee to update what we consider the value of Nexus today to its members. More importantly we have brain-stormed what can be done to improve this service on an economically viable basis.

In short we have a number of new ideas to present of how to provide better value to our members, what should be the relationships we build with our members, customers - in particular the European Commission - and also other regional and international MNT networks. I feel the time has now come to present these ideas for debate by the broad membership and to undertake this in conjunction with our obligations to hold an Annual General Meeting.

**As such we invite you to attend the 2006 AGM for Nexus Association, Switzerland** and we hope you have the chance to participate in this meeting and contribute to this important debate. The agenda summary below outlines the subjects to be presented and your participation will be of enormous benefit to the future of the Association.

For everyone's benefit, I have uploaded a copy of the Articles of Association of the 'new Nexus' and also a copy of the By-Laws that have been drafted by the Steering Committee these past months to our website ([www.nexus-mems.com](http://www.nexus-mems.com)). These By-Laws reference our views on how membership of the Association should be defined in the future (2007) and what benefits would be reserved for such Members.

Details of the financial report including our financial Budget for 2007 will be distributed in the coming weeks and in advance of the meeting giving time for everyone to prepare their comments.

**The AGM will be held in Milan, Italy on the morning of November 29th**, as back-to-back meetings to the NEXUS MWG Reliability & Test / PATENT-DfMM (27th-29th) Workshop. The AGM will be followed in the afternoon by a 'FP7 early bird' meeting thereby maximising the benefits for member participation. Details of these meetings are also stated below. Nexus will be co-hosting a dinner with Patent on the night before the AGM to promote cross fertilization of ideas and networking. On behalf of the Steering Committee I do hope you can make this meeting and dinner.

For our convenience in organising the event and to reserve places at the Nexus-Patent dinner, please advise us by return of your intent to participate or not.

Our many thanks!  
Yours Sincerely,

Sean Neylon, Chairman of Nexus Association

## 29 Nov 06: NEXUS Annual General Meeting and EC FP7 Workshop

### Morning: NEXUS AGM

- 09:00** Introduction & Welcome (*Sean Neylon, Colibrys*)  
**09:15** Chairman's Report 2006 (*Sean Neylon, Colibrys*):  
*Transfer from France to Switzerland*  
*Changes in Organisation*  
*Future strategy / value to membership*  
**10:15** Coffee break  
**10:30** Financial Report (*David Holden, CEA*):  
*Financial status 2006*  
*Budget proposal 2007*  
*Future funding*  
**11:30** Election of members to Steering Committee  
**11:45** Questions  
**12:30** Close of meeting/ Lunch

### Afternoon: NEXUSplus FP7 (Draft Agenda)

- 14:00** Introduction & Welcome (*Sean Neylon, Colibrys*)  
**14:15** Presentations:  
*Overview Status of FP7 Call 1 and 2 (EC, TBA)*  
*IP/NOE future participation in FP7: New skills, changes in objectives e.g. Smarthealth, INTEGRAMplus, Summary of other IP/NoE's*  
*MINOS presentation (TBA)*  
**15:30** Interactive workshop: Round table thematic discussions  
*Medical/Life Sciences*  
*Harsh environment*  
*Consumer*  
*Transportation*  
*IT Multimedia*  
*MWG's (Design, Packaging, Test, Reliability)*  
**16:30** Round table summaries  
**17:00** Close

## 27 Nov 06: PATENT-DfMM and MEMUNITY Workshop, Tutorials and Equipment Demos

- 12:00** Registration + Snack  
**12:45** 12:45 Welcome and Introduction (*Patric Salomon, 4M2C / enablingMNT*)  
**13:00** PATENT-DfMM Tutorial "Reliability issues in MEMS: physics of failure and design for reliability"  
(*Ingrid De Wolf, IMEC*)  
**14:30** MEMUNITY Introduction "MEMS Test Challenges on Wafer level"  
(*Frank-Michael Werner, Jens Klattenhoff, MEMUNITY*)  
**15:00** Coffee break at "mini exhibition" (PATENT posters and MEMUNITY demo tables)  
**15:30** PATENT-DfMM Tutorial "Damping Effects in MEMS" (*Attilio Frangi, Politecnico di Milano*)  
Overview of techniques for evaluation of gas and solid damping at pressures ranging from ambient conditions (1 bar) to near vacuum (1  $\mu$ bar)  
/ in parallel to /  
MEMUNITY Equipment Demo: "Automated membrane test using different techniques"  
**17:00** End of meeting

## 28 Nov 06: NEXUS Methodology Working Group Reliability and Test

### Morning Theme : Advances in Reliability & Test, Key Projects

- 09:00** Introduction  
**09:30** Keynote: Reliability Challenges for MEMS Integration (*Benedetto Vigna, ST Microelectronics*)  
**10:00** Reliability Flagship Project in NoE PATENT-DfMM (*Ingrid De Wolf, IMEC*)  
**10:30** Coffee break  
**11:00** Reliability Roadmap and other networks (*TBA*)  
**11:30** MEMS Reliability Challenges in EURELNET (*Yves OUSTEN, IXL*)  
**12:00** Map of activities – discussion  
**12:30** Lunch

Afternoon Theme: Future Networks, projects and collaboration

**13:30** Caneus Pilot Project "Reliability" output and future business model (*Philippe Perdue, CNES*)

**14:00** Parameter Identification of Pressure Sensors at Wafer Level (*Steffen Michael, Melexis*)

**14:15** MEMS Test Challenges: Applications, solutions and future visions (*MEMUNITY*)

**14:30** Briefing on Breakout Sessions

**14:45** Focus Groups

1. Failure mechanisms, modelling and fault simulation
2. Accelerated Testing, Test Strategies and Reliability indicators
3. Collaboration / business models for future initiatives

**15:30** Coffee break

**16:00** Focus group reports

**16:30** Discussion on actions and way forward

- EC FP7 opportunities
- Linking existing networks
- Private sector funding

## Venue

The meetings will take place at the Politecnico di Milano ( [www.polimi.it](http://www.polimi.it) )

The address is: Piazza Leonardo da Vinci 32, 20133 Milan, Italy

Local organiser: Prof. Alberto Corigliano, Office Phone: + 39 02 2399 4209

Nearest MetroStation: Piola - Green line (2)

We recommend the Hotel Lombardia ([www.hotellombardia.com](http://www.hotellombardia.com)) which has a "Politecnico" rate of €85 for a single room and €128 for a double room, breakfast included. It is at walking distance from Politecnico (approx 10 minutes). You can either make your booking by E-mail [info@hotellombardia.com](mailto:info@hotellombardia.com) or phone +39 022892515.

*Please make your own hotel reservation!*

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If you have any questions concerning the meeting and registration, please forward them to:  
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