



NEXUS



NEXUS Association: Microsystems Networking for Europe



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Who is Nexus



- **Nexus is a Pan-European Microsystems Association based in Neuchatel, Switzerland**
- **Operations Manager**
Alan Greatbatch
- **Contact:**
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Tel: +41 32 720 5535
- **Membership: Free at the moment**
Please register – Application forms are available



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Mission



To service the European microsystem component community - Research to Industrial Users - by organising networking events, and publishing independent market studies & roadmaps that can help plan future research and industrial strategies and monitor effectiveness of current programmes within the EC.



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Objectives



- Networking, Dissemination & Cross fertilisation
 - EPoSS/Euripides future smart systems and integration of microsystems
 - IPs and NOEs, other EC-funded MNT projects
 - Inclusion of NMS (New Member States) / ACC (Associated Candidate Countries) into FP7
 - Inclusion of SMEs into FP7
- Promotion worldwide of EC smart health research
- Provide independent affordable expert driven:
 - **Market / Application studies**
 - **Technology Roadmapping reports**

 NEXUS		Steering Committee (SC)	 Information Society Technologies
Chairman:	Sean Neylon	Colibrys	
Vice Chairman:	Patric Salomon	4M2C	
Operations Manager:	Alan Greatbatch	Nexus	
Treasurer:	David Holden	CEA	
SC:	Roberto Della Marina	Olivetti	
SC:	Carmen Moldovan	IMT	
SC:	Henning Wicht	WTC	
SC:	Ayman El-Fataty	BAE	
SC:	Andrew Richardson	U Lanc.	
President:	Thomas Hinderling	CSEM	

 NEXUS		Activities	 Information Society Technologies
<ul style="list-style-type: none"> • FP7 Specific Support Actions: <ul style="list-style-type: none"> • Brokerage events in collaboration with existing transnational, national, regional networks, clusters <ul style="list-style-type: none"> • MINOS/UKMNT/Swiss MNT/Bayern Innovativ • Euripides, ERA-Net • Harsh Environments: Caneus • Promotion (CSEM/CEA/UK-MNT) <ul style="list-style-type: none"> • (IPs) SmartHEALTH • (Services) Europractice, Integramplus, Patent-DfMM.... • Dissemination: Website, E-Zine, MST News • Networking between research and industry • International cooperation - MIG/Metric (USA), Micromachine Center Japan, ITRI Taiwan, etc. 			



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Forthcoming FP7 Brokerage events



Information Society
Technologies

- Paris (F) 26th March Smart Systems (CEA)
- Stresa (I) 24-25th April DTIP (Patent-DfMM)
- Loughborough (UK) 2nd May (CEMMNT)
- Nürnberg (D) 23rd May Sensor & Test (IVAM/AMA)
- Neuchatel (CH) June (Swiss MNT)
- Warsaw (Pol) 4-8th June Europractice (Minos?)

Travel support for enhancing NMS/ACC visibility in Western Europe



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NEXUS / MINOS Brokerage Bucharest 22-23rd March 2007



Information Society
Technologies

- Over 250 attendees with NMP on Day 1
- Over 100 attendees for ICT Day 2
- Major presentations: EC, Euripides, Nexus, IPs & NOEs
- Announcement of Minos-Nexus collaboration agreement
- Brokerage event:
 - 150 Database entries (for pre- and post event use)
 - 8 short Presentations
 - Poster session
 - Significant interaction

Brokerage database available at: www.minos-euro.net



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NEXUS / PATENT-DfMM Event Stresa (I), 24-25th April 2007



NEXUS / PATENT-DfMM Workshop on **Design for Reliability and Manufacturability in MNT** (24th Apr)

Topics addressed:

- Manufacturability into the design flow;
- Measurement strategies for calibration and test;
- Reliability assessment: state of the art and further needs;
- MEMS manufacturability within FP7.

NEXUS special session within DTIP on **Opportunities for Cooperative R&D** (25th Apr)

PATENT-DfMM panel discussion within DTIP on **Design for Reliability and Test of Microsystems** (26th Apr)

DTIP is the **Symposium on Design, Test, Integration and Packaging of MEMS and MOEMS** (25-27th April)

www.patent-dfmm.org www.nexus-mems.com



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Roadmapping Activities



• Horizontal methodology working groups

- MEMS Design Modelling Simulation (DMS)
- Materials, Processes & Equipment (SEMI?)
- Packaging & Integration
- Reliability / Test (Patent-DfMM)
- Metrology (CEMMNT?)

• Thematic workshops

- | | | |
|------------------------|----------------|------------------------|
| • μ machine summit | April 26-28th | Nexus as EC speaker |
| • RF Cluster Meeting | June 28th | Barcelona |
| • NanoBio | June 13-15th | Microfluidics, Munster |
| • MicroTAS | October 6-11th | Microfluidics, Paris |



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What now needs to be done?



- **Enlist support of market focused platforms (Euripides & EPoSS)**
 - Define what value / services Nexus could provide to support EPoSS objectives
 - Interested to take Dissemination/Cross-fertilisation role in new FP7 proposals (SSA & projects)
- **Confirm if can provide valued role within Europractice**
- **Formalise collaboration with regional networks**
 - IVAM, Micronora, UK MNT,
- **Consolidate industrial representation within SC**
- **Define trans-European Research support**



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Member Benefits



- **'Dating Service' for NMS/ACC and SMEs**
 - Advice on helping SME & NMS/ACC members become active in European Microsystems projects
 - IPR
 - FP7 call information
- **Research to Industrial supply chain networks**
 - 'Yellow pages' of MST players
- **Dissemination: Website, Ezine, MST News**
- **Visibility within the EC**