

## **TNT 2006 "Trends in Nanotechnology", September 4-8, 2006, Grenoble, France**



This high-level scientific meeting series aims to present a broad range of current research in Nanoscience and Nanotechnology as well as related policies (European Commission, etc.) or other kind of initiatives (iNANO, IEEE, GDR-E, etc.). TNT events have demonstrated that they are particularly effective in transmitting information and establishing contacts among workers in this field. Graduate students fortunate to attend such events quickly learn the importance of interdisciplinary skills, thereby becoming more effective in their future research. The TNT2006 structure will keep the fundamental features of the previous editions, providing a unique opportunity for broad interaction.

For details see: <http://www.tnt2006.org/>

## **NanoEurope Fair & Conference, September 12-14, 2006, Swiss Fair Center of Olma Messen, St. Gallen, Switzerland**

The Conference contents are primarily tailored to the needs of representatives from three different key industries: Medical Devices, Plastics, and Textiles. The goal is to present commercial nanotechnology applications. Each day is dedicated to one of these industries. The Conferences are structured on the basis of the following areas: general overview papers, focal papers, and business papers. To learn more about the individual subjects, please follow the links below or open the Conference Brochure.

The three visitor industries form the basis of the NanoEurope and are reflected in the subjects treated during the Fair and the Conferences. Each day will end with a networking event. All exhibitors, visitors, speakers, and conference attendees are invited to take part.

For the second time now, the issue of nanotechnology regulation will be dealt with as part of the NanoEurope. Topical, practice-related aspects of safety and risk research into nanomaterials and the associated regulations will be discussed.

**Medical Devices; Plastics; Textiles; NanoRegulation**

[http://www.olma-messen.ch/wEnglisch/messen/nanoeuropa/01\\_besucher/home/homeW3DnavanchorW261110012.php](http://www.olma-messen.ch/wEnglisch/messen/nanoeuropa/01_besucher/home/homeW3DnavanchorW261110012.php)

## **20th Eurosensors Conference Anniversary, 17th – 20th September 2006, Göteborg, Sweden**

The workshop covers the areas on sensors and actuators, micro- and nanosystems. The Eurosensor conference invites papers in subjects including, but not restricted to: Theory, modelling and design; Materials and technology; Micro- and nanofabrication for sensors and actuators; Physical, chemical and biological sensors and actuators; Micro fluidic & micro analysis devices and systems; Optical MEMS and RF MEMS; Micro power generation; Interface and system issues. Sensor networks; Packaging and assembly;

There will be invited and keynote speakers giving excellent reviews on the state of the art and present exciting highlights. Authors will be given the opportunity to highlight the gist of their work during oral presentations and poster sessions. Ample time will be available during the poster sessions for discussions of new ideas and results. First of all, the Eurosensor conference offers an attractive meeting place where new and important achievements can be discussed. Parallel to the technical program there will be an exhibition by vendors of products and services relevant to the field of sensors.

For details see: [http://www.eurosensors.net/index.php?option=com\\_content&task=view&id=25&Itemid=43](http://www.eurosensors.net/index.php?option=com_content&task=view&id=25&Itemid=43)



## **AMICOM : LAAS-CNRS transferred an RF MEMS Reliability platform to Alcatel Alenia Space**

**LAAS-CNRS** has developed an original reliability platform that consists to monitor the microwave behavior of electrostatic actuated ohmic and capacitive switch versus the DC voltage ranging from -60 V to + 60 V. The platform features different types of stress (unipolar, bipolar, cycling with different frequency, DC stress). The stress can be applied with respect to ambient temperature ranging from -50°C to 100°C and under neutral gaz. It has been observed that dielectric charging effect turns out to a shift of the actuation voltage and it has been demonstrated that the kinetic of the shift of the actuation voltage is an important parameter that is representative of the degradation mechanism. Additionally, it has been shown that the contact behavior drives the stress intensity through the effective electrical field. The main degradation mechanism that has been observed is related to Poole Frenkel effect. A figure of merit has been proposed that takes into account only the intrinsic properties of the dielectric and that allows to select devices with respect to their reliability performance and to determine the life time of the device. The test set has been developed by a PhD student Samuel Melle and by David Dubuc associate professor at LAAS-CNRS and Toulouse University. It is fully controlled through a computer and has been successfully transferred to Alcatel Alenia Space.

This work has been partly supported by the **Network of Excellence AMICOM**.

For more details, you can contact **David Dubuc** at LAAS-CNRS, 7 avenue du Colonel Roche, 31077 Toulouse Cedex, email : [dubuc@laas.fr](mailto:dubuc@laas.fr)

**Micro and NanoTechnology Bulletin** is published quarterly by IMT-Bucharest, Romania ([www.imt.ro](http://www.imt.ro)). This Bulletin, originally intended to publicize **results of Romanian researchers in the micro and nanotechnology (MNT) field**, is extending its coverage since 2004 to Eastern Europe. The purpose is to contribute to a better communication of MNT scientific communities from Eastern Europe to the rest of the world. MNT Bulletin is distributed free of charge to interested organisations and individuals.

Editor-in-Chief: **Dan Dascalu (IMT-Bucharest)**.

The Bulletin is also available on the web page: [www.imt.ro/mnt](http://www.imt.ro/mnt).

IMT-Bucharest is also the coordinator of three SSA projects (**MINOS-EURONET** and **MINAEAST-NET**) with support and dissemination activities through web pages, e-newsletter, flash news and online databases:

- Support trough individual grants: [www.minaeast.net](http://www.minaeast.net);
- E-newsletters: **MINOS-EURONET** and **MINAEAST-NET** projects (common issue): <http://www.minaeast.net>;
- Flash news: **MINOS-EURONET** and **MINAEAST-NET** projects (common issue): <http://www.minaeast.net>;
- Online Databases: <http://www.minos-euro.net>

Coordinator of **MINOS-EURONET** and **MINAEAST-NET** projects: Prof. Dan Dascalu ([dascalu@imt.ro](mailto:dascalu@imt.ro)).

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