



ICTM-CMTM



Invitation to REGMINA Workshop on MEMS and NEMS technologies on 4th and 5th June 2009

Centre for Microelectronic Technologies and Single Crystals (CMTM), Institute of Chemistry, Technology and Metallurgy (ICTM), University in Belgrade in collaboration with the networking partners of REGMINA project, invite you to a workshop on MEMS and NEMS technologies, to be held at SANU (Serbian academy of sciences and arts) Belgrade, Serbia, on the 4th and 5th June, 2009. More information about CMTM can be found at the following website: <http://nanosys.ihtm.bg.ac.rs/>

Growing needs for compact high-performance sensors have provided a significant challenge to the design and fabrication of integrated microsystems and components. As CMTM is the leading organization in the field of microsystem technologies (MST) in Serbia and the Western Balkans, research at CMTM is performed in the following major areas: sensors and photodetectors, various types of microelectromechanical (MEMS) and microoptoelectromechanical (MOEMS) structures for sensing applications as well as some aspects of nanoscience connected to nanosystem technologies (NST). These areas were also recognized as priorities of the FP7 Programme. FP7 Project “Reinforcement of Regional Microsystems and Nanosystems Centre” (REGMINA) is aimed at the reinforcement of CMTM research capacities, performed through up-grading of the existing equipment, training of its staff and hiring young researchers.

Four EU partnering research institutions contribute to the increasing knowledge-base at CMTM:

- 1) The Laboratory of nanostructures and novel materials (NN research group), EPFL, Lausanne, Switzerland
- 2) The Institute of Microelectronics (IMEL) at the National Center for Scientific Research (NCSR) “Demokritos”, Athens, Greece
- 3) Fraunhofer Micro Materials Centre Berlin (MMCB), Fraunhofer Institute for Reliability and Microintegration (IZM), Berlin, Germany
- 4) Institute of Sensor and Actuator Systems (ISAS), Vienna University of Technology, Vienna, Austria

This workshop is aimed to improve research cooperation between CMTM and European and regional partners as well as other leading research institutions in the field of MEMS and NEMS technologies. Based on current and future trends in microsystems technologies, the workshop will cover important aspects of Microelectronics, Optoelectronics, Nanoelectronics etc. CMTM already presents a well-known base for dissemination of knowledge and the know-how in the region. To foster and optimize dissemination of the project results, and increase specific scientific knowledge-base in the WBC region, presence of local institutions is of great importance.

This is the first workshop out of two planned in within the frames of REGPOT FP7 project REGMINA. There are 6 invited and confirmed speakers and the schedule (with possible slight changes) will be as following:

04.06.2009. SANU, Belgrade

10:00 – 10:30

Prof. Dr. Zoran Djuric, ICTM-CMTM, Belgrade, Serbia
"ICTM-CMTM: Past, Present and Future. Short introduction"

10:30 – 11:30

Prof. Dr. Paddy French, Delft University, Holland
"MEMS and NEMS integration"

11:30 – 12:00

Coffee break

12:00 – 13:00

Prof. Dr. Laszlo Forro, EPFL, Switzerland
"Mechanical properties of individual nanostructures"

13:00 – 14:00

Ivan Elmi, CNR-IMM, Bologna, Italy
"Microsystem Technologies for physical and chemical sensing:
Activities at CNR-IMM"

05.06.2009. SANU, Belgrade

10:00 – 11:00

Prof. Dr. Androula G. Nassioupolu, IMEL/NCSR, Athens, Greece
"Porous Silicon and Porous Alumina for Electronics and Sensors"

11:00 – 12:00

Prof. Dr. Rade Popović, EPFL, Switzerland
"Single Electron Bipolar Avalanche Transistor as Nano Sensor - Electronic Interface in MEMS"

12:00 – 12:30

Coffee break

12:30 –

Advisory Board meeting

All contributions submitted will be made available on the CMTM website after the workshop in pdf format. All presenters are invited speakers and of approximately 45 minutes plus time for discussion.

Attendance at the workshop is free and is open to non-members of CMTM and the REGMINA project. To confirm your attendance, please send an email to: jelena.buha@nanosys.ihtm.bg.ac.rs

We are looking forward to seeing you in Belgrade.

