

## MMS2014 PROGRAM AT A GLANCE

**Room:** all sessions will be in Topázio Room.

### Topics of special interest for this MMS2014:

- MNT for sports and health, environment and energy;
- Smart System Integration.

### Monday, May 12, 2014

Time	World Micromachine Summit Session 1
8:30	Opening session – <i>Jacobus Swart</i>
8:45	“MEMS, Microsystems and MicroMachines: a Technical and Historical Overview of the World MicroMachine Summit”, <i>Paolo Dario, Italy.</i>

Session 2 - Chief Delegate Country and Region Review <i>Session Chair: Thomas Gessner</i>		
Time	Country/Region	Chief delegate
9:00	Australia	<i>Dwayne Kirk</i>
9:10	Benelux	<i>Albert Van den Berg</i>
9:20	China	<i>Zhiyu Hu</i>
9:30	France	<i>Nicolas Chaillet</i>
9:40	Germany	<i>Thomas Gessner</i>
9:50	Iberia	<i>Carles Cané</i>
10:00	Italy	<i>Paolo Dario</i>
10:10	Japan	<i>Isao Shimoyama</i>
10:20	Group Picture	
10:30	Coffee Break	

## MMS2014 PROGRAM AT A GLANCE

<b>Session 3 - Chief Delegate Country and Region Review</b>		
<b>Session Chair: Zhiyu Hu</b>		
<b>Time</b>	<b>Country/Region</b>	<b>Chief delegate</b>
11:00	Korea	<i>Jun-Bo Yoon</i>
11:10	Latin America	<i>Jacobus Swart</i>
11:20	Nordic	<i>Per Ohlckers</i>
11:30	Romania	<i>Alexandra Raluca Stefanescu</i>
11:40	Switzerland	<i>Philippe Fischer</i>
11:50	Taiwan	<i>Yu-Cheng Lin</i>
12:00	United Kingdom	<i>Marc Desmulliez</i>
12:10	USA	<i>Yogesh Gianchandani</i>
12:20	European Commission	<i>Augusto A. de Albuquerque</i>
12:30	Lunch	

<b>Session 4 – Health and Bio Microsystems</b>	
<b>Session Chair: Albert Van den Berg</b>	
<b>Time</b>	<b>Title and Speaker</b>
14:00	“Microfluidics 4 health care: technology trends anno 2014”, <i>Henne van Heeren, University of Utrecht, The Netherlands</i>
14:15	“Research progress of surface stress-based biosensors”, <i>Shenbo Sang, TYUT, China.</i>
14:30	“German Microtechnology in Personalized Medicine: Cost Reduction in the Health Care System in an Aging Society”, <i>Thomas Dietrich, Geschäftsführer, Germany</i>
14:45	“Smart Mobile Diagnostics”, <i>Thomas Otto, Fraunhofer ENAS, Germany</i>
15:00	“Wearable sensors for human and environmental monitoring”, <i>Inkyu Park, Kaist University, Republic of Korea</i>
15:15	“Detecting tropical diseases using point-of-care, on-chip molecular tests”, <i>Alexandre Dias T. Costa, IBMP/Fiocruz, Brazil</i>
15:30	“A Review of Non-Invasive Continuous Blood Glucose Measurement Techniques”, <i>Asmat Nawaz*, Per Øhlckers*, M. Nadeem Akram*, Steinar Sælid**, Morten Jacobsen***, * Dep of Micro and Nano Systems Technology, Buskerud and Vestfold University College, ** Prediktor Medical AS, *** Sykehuset Østfold, Norway</i>
15:45	Break

**MMS2014 PROGRAM AT A GLANCE**

<b>Session 5 – Panel Discussion</b>	
<b>MNT for sports and health, environment and energy</b>	
<b><i>Session Chair: Augusto de Albuquerque, European Commission</i></b>	
<b>Time</b>	<b>Title and Speaker</b>
16:00	Panel Discussion
17:30	Break
19:00	Dinner at South's Place steak house

## MMS2014 PROGRAM AT A GLANCE

**Tuesday, May 13, 2014**

**Session 6 – Chemical, Environmental, Pressure and RF Microsystems**

**Session Chair: Yu-Cheng Lin**

<b>Time</b>	<b>Title and Speaker</b>
8:30	"New microsensors based on nanostructured carbon materials", <i>Stanislav Moshkalev, CCS/UNICAMP, Brazil.</i>
8:45	"Chemical Sensors for Hydrogen and Acetylene Detection", <i>Sebastião Gomes dos Santos Fo., LSI/EPUSP, Brazil</i>
9:00	"Integrated Microsystems for Environmental Sensing", <i>Yogesh Gianchandani, University of Michigan, USA</i>
9:15	"A new Low Differential Pressure Sensor", <i>Torsten Thieme, First Sensor AG, Silicon Saxony, Germany</i>
9:30	"SINERGY: Silicon friendly energy harvesting solutions", <i>Luis Fonseca, National Microelectronics Centre of Barcelona, Iberia</i>
9:45	"Novel microwave and mm-wave devices based on MEMS and nanoprocessing technologies", <i>Alexandra Stefanescu, Institute for Research and Development in Microtechnologies –IMT, Romania</i>
10:00	"Silicon Photonics", <i>Roberto Panepucci, CTI, Brazil</i>
10:15	Coffee Break

**Session 7 – MNT Applications and Markets**

**Session Chair: Daniel Lupi**

<b>Time</b>	<b>Title and Speaker</b>
10:45	"Low-cost sensors for Brazilian strategic fields", <i>Carlos César Bof Bufon, LNNano/CNPEM, Brazil</i>
11:00	"From micro-devices to smart systems: examples from France", <i>Michel De Labachellerie, CNRS, FEMTO-ST, France</i>
11:15	"Recent progress in aerospace applications of MEMS", <i>Weizhen Yuan, NWPU, China</i>
11:30	"Overview of flexible MEMS and sensors", <i>Zeng Cui, SINANO, China</i>
11:45	"From Production 4.0 to Lifestyle products – what's next in Microsystems Trends and outlook", <i>Uwe Kleinkes, University of Applied Sciences Hamm-Lippstadt, Germany</i>

## MMS2014 PROGRAM AT A GLANCE

12:00	"Vertical Integration of R&D in Micro- and Nano-systems (MEMS / NEMS) for optimal adoption in industrial applications", <i>Patrick Albert, CSEM, Switzerland</i>
12:15	"Evolution of the MEMS applications, markets and impact on the supply chain today and in the future", <i>Jean-Christophe Eloy, Yole Développement, France</i>
12:30	Lunch

<b>Session 8 – MNT Applications, Programs and Initiatives</b> <i>Session Chair: Yogesh Gianchandani</i>	
<b>Time</b>	<b>Title and Speaker</b>
14:00	"Argentine Activity in Micro and Nanoelectronics", <i>Daniel Lupi, FAN, Argentina</i>
14:15	"MEMS and NEMS researches at Institute of Instrument Science and Technology in Tsinghua University of China", <i>Rong Zhu, Tsinghua University, China</i>
14:30	"LIMEMS-INAOE, a MEMS Innovation Laboratory at INAOE", <i>Alfonso Torres Jacome, INAOE, Mexico</i>
14:45	"Multidisciplinary network-based research supporting the UK's micro-machines sector", <i>Paul Conway, Loughborough University, UK</i>
15:00	"Nano/MEMS Open Innovation Center in Japan", <i>Takashi Mihara, University of Tokyo, Japan</i>
15:15	"EXPRESS – a project for mobilizing Expert Resources in the European Smart Systems Integration Ecosystem", <i>Philippe Fischer, FSRM, Switzerland</i>
15:30	"Wearable power sources for well-being oriented microsystems", <i>L. Francioso, C. De Pascali, P.Siciliano, IMM/CNR, Italy</i>
15:45	Coffee Break

<b>Session 9 – Panel Discussion</b> <b>MNT Opportunities for Latin America</b> <i>Session Chair: Jacobus Swart, UNICAMP, Brazil</i>	
<b>Time</b>	<b>Title and Speaker</b>
16:15	Panel Discussion
17:30	Break
19:30	Bus to Campinas