

MMS2017 23rd World Smart Systems and Micromachine Summit

PROGRAM

Sunday, 14 May

6:00PM	Registration and Welcome Cocktail
8:00PM	

Monday, 15 May

7:30AM	Registration	
6:00PM		
8:30AM	Opening	
	Session 1: Country/Region Reviews (I)	Chairman: Paolo Dario Chief Delegates
8:45AM	Australia	Mariusz Martyniuk The University of Western Australia
9:00AM	Austria	Ulrich Schmid TU Wien. Institute of Sensor and Actuator Systems
9:15AM	Benelux	Albert van den Berg University of Twente
9:30AM	Canada	Dan Gale CMC Microsystems
9:45AM	China	Xinxin Li Shanghai Institute Microsystem and Information Technology
10:00AM	Danubian	Adrian Dinescu IMT. National Institute for R&D in Microtechnologies Romania
10:15AM	European Commission	Henri Rajbenbach European Commission
10:30AM	Coffee Break	
11:00AM	PHOTO	
	Session 2: Country/Region Reviews (II)	Chairman: Philippe Fischer Chief Delegates
11:15AM	France	Michel de Labachellerie INSIS. Institute of Engineering and Systems Sciences
11:30AM	Germany	Thomas Otto ENAS. Fraunhofer-Institute for Electronic Nano Systems
11:45AM	Ireland	Cian O'Mathuna Tyndall National Institute
12:00PM	Italy	Paolo Dario SSSA. Scuola Superiore Sant'Anna
12:15PM	Japan	Isao Shimoyama University of Tokyo
12:30PM	Korea	Tae Song Kim KIST. Korea Institute of Science and Technology
12:45PM	Latin America	Daniel Lupi FAN. Argentinean Foundation of Nanotechnology
1:00PM	Lunch Break	

Session 3: Country/Region Reviews (III)		Chairman: Albert van den Berg Chief Delegates
2:30PM	Nordic	Per Ohlckers University College of Southeast Norway
2:45PM	Singapore	Jianmin Miao Nanyang Technological University
3:00PM	Switzerland	Philippe Fischer FSRM, Swiss Foundation for Research in Microtechnology
3:15PM	Taiwan	Yu-Ting Cheng National Chiao Tung University
3:30PM	UK	Massimiliano Zecca Loughborough University
3:45PM	USA	Steven Walsh University of New Mexico - Mancef
4:00PM	Iberian	Carles Cané CNM-CSIC. Centro Nacional de Microelectrónica
4:15PM	Coffee Break	
4:45PM 6:00PM	<p>ROUND TABLE: Smart Systems for Smart Cities: Vision from the users and systems integrators.</p> <p>Participants from the Catalan Government, from a large Utilities company, from a SME and from IT Technological Centres.</p>	<p>Xavier Vilalta. Acció. Generalitat de Catalunya.Spain. Milagros Rey. Gas Natural Fenosa. Spain Andrea Bartoli. WorldSensing. Spain Josep Paradells. I2CAT. Spain Jordi Ricart. LEITAT. Spain</p>
Bus leaving at 6:30PM from the hotel		
7:00PM 11:00PM	<p>Cultural visit to "la Pedrera", Gaudi's Architect Art Nouveau Masterpiece. Conference banquet at the restaurant "El Xalet de Montjuich" on the Olympic Mountain.</p>	

Tuesday, 16 May		
Session 4: Smart Systems for Smart Cities		Chairman: Adrian Dinescu Speaker
8:30AM	<i>Smart systems for smart home and smart city</i>	Torsten Thieme Memsfab GmbH. Germany
8:45AM	<i>Microsystems in smart small towns</i>	Paolo Dario Scuola Superiore Santa Anna. Italy
9:00AM	<i>The MSP-Project: Multi sensor platform for smart building management. Results and perspectives</i>	Anton Köck Materials Center Leoben Forschung GmbH. Austria
9:15AM	<i>Seamless interfaces for monitoring and interacting in the city: A practical view using smart POIs</i>	Antonio Jara HOP Ubiquitous S.L. Spain (EC Delegation)
9:30AM	<i>The Italian cluster on smart living technologies: strategies and roadmap</i>	Pietro Siciliano IMM-CNR. Institute Microelectronics and Microsystems. Italy
9:45AM	<i>Intelligent health sensor network for smart city</i>	Shengbo Sang MicroNano System Research Center. Taiyuan Uni. Tech. China
10:00AM	<i>Nanosensors for sustainable cities: from fundamentals to deployments</i>	Bérengère Lebental IFSTTAR. Institute of science and technology for transport, spatial planning, development and networks. France
10:15AM	<i>Energy harvesting and smart cities</i>	Nilton Morimoto Polytechnic School of University of São Paulo. Brazil
10:30AM	Coffee Break	
Session 5: Smart Systems and Technologies for other Applications (I)		Chairman: Steven Walsh Speaker
11:00AM	<i>MEMS - enabling technology for the Internet of Things.</i>	Markus Sonnemann Robert Bosch GmbH. Germany
11:15AM	<i>Industry 4.0: Pooling resources and know-how to accelerate digital transformation processes in SME</i>	Christine Neuy MicroTEC Südwest e.V. Germany
11:30AM	<i>Would you please take part in the MEMS related international standard activity "IEC/SC47F"?</i>	Takashi Mihara Micromachine Center. Japan
11:45AM	<i>Silicon carbide MEMS for harsh environments</i>	Hoang Phuong Phan Queensland Micro and Nanotechnology Centre Griffith University. Australia
12:00PM	<i>Nano-constructed multilayer materials and their applications in MEMS/NEMS</i>	Zhiyu Hu Shanghai Jiao Tong University. China
12:15PM	<i>Nano imprint and photonics for smart systems</i>	Otto Bobenstetter Electronics Vision Group. Austria
12:30PM	<i>Recent advances in MEMS switches</i>	Jun-Bo Yoon KAIST. Advanced Institute of Science and Technology. Korea
12:45PM	<i>Piezoelectric Microsystems: Material Aspects, Devices and Applications</i>	Ulrich Schmid Institute of Sensor and Actuator Systems, TU Wien. Austria
1:00PM	Lunch Break / Chief Delegates Committee meeting	

Session 6: Smart Systems and Technologies for other applications (II)		Chairman: Tae Song Kim Speaker
2:30PM	<i>Ternary composite Si/TiN/MnO2 nanostructure array for On-Chip supercapacitor with improved energy density</i>	Per Ohlckers University College of Southeast Norway
2:45PM	<i>SAW pressure sensors based on micromachining and nanolithographic processing of GaN/Si</i>	Alexandra Stefanescu IMT-Bucharest. National Institute for R&D in Microtechnologies. Romania
3:00PM	<i>Bacterium detection by microfluidic chip</i>	Yi Xu School of Optoelectronics Engineering Chongqing University. China
3:15PM	<i>Recent progresses in solid-state nanopore for biomolecule sensing</i>	Ki-Bum Kim Seoul National University. Korea
3:30PM	<i>Wearables for human wellbeing: New developments and applications</i>	Thomas Dietrich IVAM. Microtechnology Network. Germany
3:45PM	<i>Co-integration of MEMS, microfluidics and nanomaterials for water networks monitoring</i>	Tarik Bourouina ESIEE. École Supérieure d'Ingénieurs en Électrotechnique et Électronique. France
4:00PM	<i>Autonomous microsystems for environment monitoring and food quality control</i>	Carmen Moldovan IMT-Bucharest. National Institute for R&D in Microtechnologies. Romania
4:15PM	Coffee Break	
4:45PM 6:00PM	<p style="text-align: center;">Round Table: Smart Systems for Smart Cities. Vision from big and small cities and citizens:</p> <p style="text-align: center;"><i>The view of Barcelona's town hall. Enabling cities to make more of available resources.</i></p> <p style="text-align: center;"><i>Humans need not apply - Smart cities without smart people? The post digitization aspect of competitiveness for MEMS and other companies.</i></p> <p style="text-align: center;"><i>An inSSight on how Europe integrates integration technologies.</i></p>	<p>Mariano Lamarca. Ajuntament de Barcelona. Spain</p> <p>Juán Gavilán. ST Microelectronics. Italy</p> <p>Uwe Kleinkes. Hochschule Hamm-Lippstadt. Germany</p> <p>Petra Weiler. VDI/VDE. Germany</p>
8:00PM 11:00PM	Group leaving at 7:30PM from the hotel Dinner at "La Fonda del Port Olímpic". Marina Barcelona	

Wednesday, 17 May

Technical Tour / Bus leaving at 8:45PM from the hotel

9:00AM	Institute of Bioengineering of Catalonia (IBEC) at the Scientific Park of Barcelona (PCB)
1:30PM	Hewlett Packard World R&D Center for 3D Printing
2:00PM	Lunch
3:30PM	Visit to Smart Cities pilot sites at the "22@ Innovation District", Barcelona
6:00PM	