

Technical Program

Sunday, 13.09.2015

9.00 –	Exhibition stands assembling
14.00 – 20.00	Registration
12.00 – 18.00	Boot Camp Presenters & Mentors: S. Walsh, J. Bryzek, J. Elders, A. Groen, R. Harms, R. Quintana
18.30	Welcome Reception

Monday, 14.09.2015

9.00	Welcome (R. Walczak, S. Volker)	
9.30	Keynote I: <i>European electronic strategy</i> K. Rouhana ("Components & Systems" DG Communications Networks, Content and Technology, European Commission, Belgium)	Room Renoir
10.00	Keynote II: <i>Polish R&R Policy towards commercialization of high-tech achievements</i> J. Kątki (The National Centre for Research and Development, Poland)	
10.30 – 11.00	Coffee break and poster/exhibition visit	
11.00 – 12.30	Session I <i>Technology transfer in Poland</i> Chair: P. Grabiec (ITE, Warsaw)	Room Renoir
11.00	<i>Technology transfer – case study of Polish projects</i> J. Dziuban (Wrocław University of Technology, Poland)	
11.20	<i>Meaningful meanings of integration: microelectronics in Poland – past, present and future</i> P. Grabiec (Institute of Electron Technology, Poland)	
11.40	<i>Strategy and vision of Polish Economy growth based on Key Enabling Technologies commercialization</i> T. Nasiłkowski (InPhoTech Sp. z o.o., Poland)	
12.00	<i>Commercialization of new technology in the Polish Universities</i> W. Grzebyk (Wrocław University of Technology, Poland)	
12.30 – 14.00	Lunch	
14.00 – 15.50	Session II <i>Commercialising MNT products (1)</i> Chair: R. Mehalso (Microtec Associates, USA)	Room Renoir
14.00	Keynote III: <i>Microcommercialization: pitfalls and challenges on this journey</i> S. Curran (C-Voltaics Inc., USA)	
14.30	<i>The pathway for micro/nano product commercialization</i> R. Mehalso (Microtec Associates, USA)	
14.50	<i>Development of the programmable Bio-Nano-Chip: bridging the commercialization gaps</i> J. McDevitt (New York University College of Dentistry, USA)	
15.10	<i>Commercialization pathways and a map for avoiding the valley of death</i> E. Harvey (MiniFAB, Australia)	
15.30	<i>Accelerating technology transfer with joint European action to address SMEs specific needs</i> R. Hamelin (Blumorpho, France)	
15.50 – 16.20	Coffee break and poster/exhibition visit	
16.20 – 18.00	Session III <i>Commercialising MNT products (2)</i> Chair: R. Mehalso (Microtec Associates, USA)	Room Renoir
16.20	<i>Making things matters: bringing product ideas from concept to manufacture in academia</i> R. Ford (Pennsylvania State University, USA)	
16.40	<i>Enabling connection technology for integrating nanostructures, circuits and sensors</i> M. Vinson (Averatek, USA)	
17.00	<i>Commercializing of terahertz imaging for micro/nano scientific and industrial applications</i> D. Arnone (TerView Ltd., UK)	
17.20	<i>Changes in technology transfer, investments and systems</i> S. Kassicieh (Univ. New Mexico, USA)	
17.40	<i>Extreme precision microsystem product commercialization</i> S. Whigham (Polatis Limited, Poland)	
18.00	<i>Challenges in the wide-scale deployment of IoT</i> I. Thukral (Boston Analytics, USA)	
19.00	Dinner in Holiday Inn Degas Hall	

Technical Program

Tuesday, 15.09.2015

9.00	Opening remarks (D. Tolfree)	
9.15	Keynote IV: <i>Microchip acoustofluidics enables novel bioanalytical applications and commercial opportunities</i> T. Laurell (Lund University, Sweden)	Room Renoir
9.45	Keynote V: <i>40 years on and microfluidics is now commercial – what took so long?</i> E. Harvey (miniFAB, Australia)	
10.15 – 10.45	Coffee break and poster/exhibition visit	
10.45 – 12.15	Session IV A (Room Renoir A) <i>Health care and biomedical diagnostics</i> Chair: T. Laurell (Lund University, Sweden)	Parallel session
10.45	Invited talk: <i>ANGELAB: EU project to develop Non Invasive Prenatal Diagnostics systems based on a modular Lab-on-a-Chip format</i> J. Ruano-Lopez (Ikerlan, Spain)	
11.15	Invited talk: <i>Lab-on-a-chip- based instrumentation for rapid detection of biological weapons: from pure science to level 8 of technology readiness</i> R. Walczak (Wrocław University of Technology, Poland)	
11.45	<i>Efficient nanophotonic biosensing for low cost real-time bioassays</i> D. Hill (University of Valencia, Spain)	
10.45 – 12.15	Session IV B (Room Renoir B) <i>Industrialisation of bio/chemical sensors</i> Chair: S. Kaminaga (SPP Techn., Japan)	Parallel session
10.45	Keynote VI: <i>Industrialization perspectives of chemical sensors</i> M. Fleischer (Siemens, Germany)	
11.15	Invited talk: <i>Recent advances in spectroscopic and calorimetric process analysis for microfluidic processes</i> S. Loebbecke (Fraunhofer ICT, Germany)	
11.45	<i>Lab-on-a-Chip systems for the evaluation of new anticancer therapeutical methods</i> M. Chudy (Warsaw Technical University, Poland)	
12.15 – 14.00	Lunch	
14.00 – 16.00	Session V A (Room Renoir A) <i>Nanotechnologies and additive manufacturing</i> Chair: S. Curran (C-Voltaics Inc., USA)	Parallel session
14.00	Invited talk: <i>Nanoimprint Lithography (NIL) as key enabling technology for volume manufacturing of MNT products</i> R. Weinhäupl (EV Group, Austria)	
14.30	<i>Nano materials for optimization of polymer systems</i> G. Dillon (Behrend College, USA)	
14.50	<i>Hybrid nanocomposites: an effective way to enhance properties of electrical devices</i> A. Rybak (ABB Research Cen., Poland)	
15.10	<i>The commercialization of Detonation Nano Diamonds for multiple applications</i> J. Meriano (Silicon Sense Inc., USA)	
15.20	<i>Supply chain risks for additive manufacturing</i> J. Hernandez (Sandia, USA)	
15.40	<i>The advent of additive manufacturing (AM)</i> A. Groen (Netherlands)	
14.00 – 15.40	Session V B (Room Renoir B) <i>Work force development</i> Chair: S. Neuen (Science@OC, USA)	Parallel session
14.00	<i>Sustainable nanotechnology: teaching the workforce</i> D. Newberry (Dakota County Tech. College, USA)	
14.30	<i>Technology transfer from Sandia National Laboratories using entrepreneurial and commercialization Ecosystems</i> R. Stinnett (Sandia, USA)	
15.00	Invited talk: <i>Business and education building the future workforce together</i> S. Neuen (Science@OC, USA)	

16.00 – 16.30 **Coffee break and poster/exhibition visit**

16.30 – 17.30	Panel Session <i>Building a commercially successful company</i> Chair: D. Tolfree (MANCEF) Participants: E. Harvey (miniFAB, Australia) S. Curran (C-Voltaics Inc., USA) D. Arnone (TerView Ltd., UK)	Room Renoir
18.00 -	Transfer to Wieliczka Salt Mine and Gala Dinner	

Wednesday, 16.09.2015

9.00	Opening remarks (S. Walsh)	
9.15	Keynote VII: <i>BrontoBytes generated by TSensors, foundation for the abundance and our future</i> J. Bryzek (eXo, USA)	Room Renoir
9.45	Keynote VIII: <i>Development and funding of MEMS and sensors for IoT and mHealth in Japan</i> S. Kaminaga (SPP Techn., Japan)	
10.15 – 10.45	Coffee break and poster/exhibition visit	
10.45 – 13.00	Session VI A (Room Renoir A) <i>Emerging smart systems</i> Chair: J. Dziuban (Wrocław University of technology, Poland)	Parallel session
10.45	Keynote IX: <i>Chip-scale atomic devices: miniature precision instruments using atoms, lasers and MEMS</i> J. Kitching (NIST, USA)	
11.15	Invited talk: <i>Silicon-glass platform for vertical multi-wafer integration of optical microsystems: applications in on-chip microscopy</i> Ch. Gorecki (FEMTO-ST, France)	
11.45	<i>Single-chip scanning probe microscopes</i> N. Sarkar (ICSPI Corp., Canada)	
12.05	<i>Internet of Things systems</i> S. Walsh (Univ. New Mexico, USA)	
12.25	<i>Holistic system integration of wide band gap devices</i> D. Kearney (ABB Corporate Research Centre, Switzerland)	
10.45 – 13.00	Session VI B (Room Renoir B) <i>Emerging MEMS and NEMS</i> Chair: J. Bryzek (eXo, USA)	
10.45	<i>EU open-access Nanolab</i> J. Hoedemaekers (MESA+, Netherlands)	
11.05	<i>Nanometrology with and for MEMS/NEMS technology</i> T. Gotszalk (Wrocław University of Technology, Poland)	
11.25	<i>Toward new integrated high-vacuum MEMS instrumentation</i> A. Górecka-Drzazga (Wrocław University of Technology, Poland)	
11.45	Invited talk: <i>Advanced trillion MEMS and 3D printed sensors for all of us</i> A. Oja (VTT, Finland)	
12.15	Invited talk: <i>Carbon nanotubes and their role in ultra-low power sensing</i> C. Roman (ETH, Switzerland)	
13.00	Closing remarks and lunch	