

MME2014 - Program at a Glance

Sunday, Aug. 31	18:00-20:00	Registration
	19:00-22:00	Welcome Reception at SDKM
Monday, Sept. 1	09:00-09:15	Welcome
	09:15-10:00	Invited Speaker I-Dr. Michael De Volder
	10:15-11:00	Flash Session I
	11:00-12:15	Poster Session I
	12:30-13:30	Lunch
	13:45-14:30	Invited Speaker II- Dr. Helene Andersson Svahn
	14:30-15:15	Flash Session II
	15:15-16:30	Poster Session II
	19:00-22:00	Conference Venue at SDKM
	Tuesday, Sept. 2	09:15-10:00
10:15-11:00		Flash Session III
11:00-12:15		Poster Session III
12:30-13:30		Lunch
13:45-14:30		Invited Speaker IV- Dr. Levent Yobas
14:30-17:30		Paper Review Session (new)
17:30-18:00		Poster Awards and Closing Remarks
18:30-21:30		Bosphorus Boat Tour (Registration only)
Wednesday, Sept. 3	10:00	Meeting on campus
	10:00-16:00	Old City Tour (Registration only)

Preliminary Program

Sunday, 31 August 2014

18:00-20:00 Registration

19:00-22:00 Welcome Reception

Monday, 1 September 2014

Welcome: 9:00-9:15

Invited Speaker I: Monday 9:15-10:00

Dr. Michael De Volder

“Capillary Forces and Carbon Nanotube Assemblies”

Flash Session I: Monday 10:15-11:00

Erwin Peiner

P1: CANTILEVER MICRO BALANCE AS NANOPARTICLE EXPOSURE MONITOR

Boukabache Ali

P2: MULTI-BACTERIA BASED BIOMEMS TO MEASURE THE BOD PARAMETER OF POLLUTED WATERS

Bo Chang

P3: HYDROPHILIC-SUPERHYDROPHOBIC PATTERNED SURFACE FOR PARALLEL MICROASSEMBLY

Katarzyna Sarelo

P4: A NEW OPTICAL SILICON MEMS PRESSURE SENSOR

Kai Kolari

P5: IN-VITRO CO-CULTURE FOR MATCHING DIABETES TYPE II CHANGES WITH ADIPOCYTE LIPIDOME

Csaba Endrödy

P6: TWO-DIMENSIONAL STEPPING DRIVE FOR HYPERSPECTRAL SYSTEMS

Sofia Rahiminejad

P7: MICROMACHINED MULTILAYER SU8 DOUBLE-SIDED PIN-FLANGE ADAPTER FOR 220-325 GHZ

Wenting Dang

P8: TECHNOLOGY FOR THE HIGHLY COMPACT INTERCONNECTION OF NEURAL PROBES WITH FLEXIBLE RIBBON CABLES

Laura Geukens

P9: EWOD AS A TRANSPORT SYSTEM: USING DROPLETS FOR MOVING A PLATFORM

Elizaveta Vereshchagina

P10: ANALYSIS OF RESIDUAL STRESS AND THERMAL HYSTERESIS IN SPUTTERED ALUMINIUM THIN FILMS

Mohammadreza Hajmiezaheydarali

P11: REALIZATION OF A NOVEL PH-SENSITIVE FIELD EFFECT TRANSISTOR THROUGH THE MICROMACHINING OF THE POLY-SILICON GATE

Laura Stöber

P12: USABILITY OF MOLYBDENUM AND MOLYBDENUM NITRIDE THIN FILMS FOR MICROSYSTEM APPLICATIONS

Andreas Dahlin

P13: FLUORESCENCE IMAGING OF MOLECULE TRANSPORT IN HIGH MOLECULAR WEIGHT CUT-OFF MICRODIALYSIS

Martin Predanocy

P14: SIMULATION AND CHARACTERIZATION OF MECHANICAL PROPERTIES OF PLATINUM MICROHEATER ON POLYIMIDE MEMBRANE

Edoardo Trabaldo, Erik Svensson, Peter Enoksson, Cristina Rusu

P15: BRIDGE MEMS PZT ENERGY HARVESTER FOR AUTOMOTIVE APPLICATIONS

Poster Session I: Monday 11:00-12:15

Invited Speaker II: Monday 13:45-14:30

Dr. Helene Andersson Svahn

“Micro- and nano-fluidic devices for biotech and medical applications”

Flash Session II: Monday 14:30-15:15

Mohammadreza Hajmiezaheydarali

P16: VERTICALLY ETCHING OF SILICON NANO-RODS AS A SENSITIVE ELECTRON DETECTOR

Ciler Özen, Salvatore Cito, Tiina Sikanen

P17: NUMERICAL PROTOTYPING OF A PARALLEL INJECTION CHIP WITH SINGLE-POINT DETECTION

Vlastimil Rehacek

P18: DEPOSITION OF GOLD NANOPARTICLES ON TiO₂ SURFACE FOR SENSOR APPLICATIONS

Zahra Khaji

P19: DESIGN AND FABRICATION OF A MINIATURIZED COMBUSTOR WITH INTEGRATED OXYGEN STORAGE AND RELEASE ELEMENT

Víctor Ruiz-Díez, Jorge Hernando-García, Jose Luis Sanchez-Rojas

P20: MODELLING OF OUT-OF-PLANE AND IN-PLANE MODES OF MICROPLATES IN LIQUID MEDIA

Ivan Hotovy

P21: DEVELOPMENT OF TITANIUM OXIDE NANOSTRUCTURES USING ELECTRON BEAM LITHOGRAPHY AND DRY ETCHING FOR GAS SENSING

Samaneh Soleimani-Amiri

P22: THREE-DIMENSIONAL NANO AND MICROMACHINING OF SILICON USING HYDROGEN-ASSISTED DEEP REACTIVE ION ETCHING

Ignat Mircea

P23: THE HYBRID MICROELECTROMECHANIC ACTUATION ON A POLYIMIDE COMPOSITES MEMBRANE CONTAINING TiO₂ NANOTUBES AND CARBON NANOTUBES

Seyedehayda Sadeghzadeh

P24: AN ELECTROMAGNETIC TUNING METHOD FOR SPLIT-RING RESONATORS

Tijmen A.G. Hageman

P25: AN INTEGRATED MAGNET ARRAY FOR TRAPPING AND MANIPULATION OF MAGNETOTACTIC BACTERIA IN MICROFLUIDICS

Garsha Bahrieh, Haluk Külah

P26: DIELECTROPHORETIC SEPARATION OF K562 HUMAN LEUKEMIA CELLS FROM LEUKOCYTES BY ISOLATED 3D ELECTRODES

Seunghee Jeong, Zhigang Wu, Klas Hjort

P27: BATCH PRODUCED MICROFLUIDIC STRETCHABLE PRINTED CIRCUITS FOR WIRELESS SYSTEMS

Marc P. Pichel, Leon Abelmann

P28: DYNAMICS AND MAGNETIC CONTROL OF MAGNETOTACTIC BACTERIA U-TURN TRAJECTORIES IN MICROFLUIDICS

Simone Mirabella, Matthias List

P29: MULTI-LEVEL MOEMS STRUCTURES FOR SPATIAL LIGHT MODULATORS

Gianmario Scotti, Sami Franssila

P30: LASER ADDITIVE MANUFACTURING FOR METALLIC MICRO FUEL CELL PROTOTYPING

Poster Session II: Monday 15:15-16:30

Conference Dinner: Monday 19:00-22:00

Tuesday, 2 September 2014

Invited Speaker III: Tuesday 9:15-10:00

Dr. Robert Puers

"How to improve the acceptance of scientific papers"

Flash Session III: Tuesday 10:15-11:00

Nicolas Dufour

P31: TECHNOLOGICAL IMPROVEMENTS OF A METAL OXIDE GAS MULTI-SENSOR BASED ON A MICRO-HOTPLATE STRUCTURE AND INKJET DEPOSITION FOR AN AUTOMOTIVE AIR QUALITY SENSOR APPLICATION

Per Ohlckers

P32: FLIP CHIP ASSEMBLY OF A HIGH SPEED PHOTODIODE FOR CRYOGENIC OPERATION IN A JOSEPHSON ARRAY VOLTAGE STANDARD

Cezary Kosla, Martin Hill

P33: LARGE SCALE AUTOMATIC BOUNCE CHARACTERIZATION IN MEMS SWITCHES

Per Löthman

P34: TOWARDS BIOMIMETIC MICROFABRICATION VIA THREE-DIMENSIONAL MACROSCOPIC MAGNETIC SELF-ASSEMBLY

Mohammad Hossein Mazaheri Kouhani, Hamdi Torun, Arda Deniz Yalcinkaya

P35: DESIGN, FABRICATION AND CHARACTERIZATION OF A RF MEMS RESONATOR FOR MRI APPLICATIONS

Sertan Sukas

P36: DESIGN AND FABRICATION OF ALL FUSED-SILICA MICROFLUIDIC DEVICES WITH INTEGRATED ELECTRODES FOR CELL ANALYSIS

Jose Rodrigues

P37: A RED-OPTICAL FILTER AT 652 NM FOR PHOTODYNAMIC THERAPY

Mohammad Amir Ghaderi

P38: DESIGN AND FABRICATION FOR STRESS RELAXATION IN PERFORATED MULTILAYERED MEMBRANES IN SURFACE MICROMACHINING

Greger Thornell

P39: THERMOMECHANICAL RIGIDITY OF A WIRELESS PRESSURE SENSOR NODE FOR HIGH-TEMPERATURE APPLICATIONS

Emre Iseri, Elif Gencturk

P40: MACRO TO MICROFLUIDIC CHANNEL INTEGRATION USING 3D PRINTING FOR LAMINAR FLOW INVESTIGATION IN A Y-CHANNEL

Emre Altinagac

P41: CONTINUOUS SEPERATION OF POLYSTYRENE PARTICLES WITH AC DIELECTROPHORESIS BASED ON THEIR SIZES

Conor O'Mahony, Konstantin Grygoryev, Gilberto Lo Re, Elizaveta Vereshchagina, Paul Galvin

P42: MICRONEEDLE-BASED DRY ELECTRODES FOR ECG AND RESPIRATION RATE MONITORING

Luis Silva, Luis Goncalves, Graça Minas

P43: FLEXIBLE ALUMINUM THIN-FILM MEMBRANES FOR PRESSURE SENSORS

Ahmad Dagamseh

P44: TRANSIENT AIRFLOW OBSERVATIONS WITH ARTIFICIAL HAIR SENSORS

Ozlem Sardan Sukas

P45: COMPOSITIONAL DEPENDENCE OF PROPERTIES OF (110) ORIENTED PULSED LASER DEPOSITED PZT THIN FILMS

Poster Session III: Tuesday 11:00-12:15

Invited Speaker IV: Tuesday 13:45-14:30

Dr. Levent Yobas

"Silicon-based microsystems: from cells to molecules"

Paper Review Session (New): Tuesday 14:30-17:30

Poster Awards and Closing Remarks: 17:30-18:00

Bosphorus Boat Tour: 18:30-21:30

Wednesday, 3 September 2014

Old City Tour: 10:00-16:00

