

12th MicronanoSystem Workshop:**Monday**

Session 1: 1 invited talk 4 contributed talks	Mon. 14th, 9:15 David Horsley Jani Karttunen Miku Laakso Tuomas Pensala Klas Hjort	Dipoli conference center (Kaleva Hall) Piezoelectric ultrasonic consumer MEMS SOI based platforms for next generation MEMS manufacturing Through-Glass Vias for MEMS Packaging Piezoelectric MEMS sensors and actuators - benefits and applications Microfluidics for High-Pressure Analyses
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Session 2: 2 invited talks	Mon. 14th, 11:15 Joachim Oberhammer Mervi Paulasto-Kröckel	Dipoli conference center (Kaleva Hall) THz MEMS: micromachining enabling new solutions at millimeter and submillimeter frequencies MEMS reliability
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Poster session**Mon. 14th, 13:00**

Session 3 1 Invited talk	Mon. 14th, 14:30 Peter Ertl	Dipoli conference center (Kaleva Hall) Technology meets biology: Chips in Organs & Organs-on-a-Chip
Session 3A 4 contributed talks	Mon. 14th, 15:30 Sadia Farjana Sampo Tuukkanen Mikko Utriainen Zhengjun Liu	Dipoli conference center (Kaleva Hall) Micromachined D-Band Multi-layer Gap Waveguide Slot Antenna Array for Line of Sight (LOS) MIMO Systems Nanofibrillated and bacterial celluloses as renewable piezoelectric sensor materials PillarHall LHAR structure for Thin Film Conformality Measurements Patternability of quasi-mono silicon beyond the photovoltaic industry
Session 3B 3 contributed talks	Mon. 14th, 15:30 Javier Cruz Jan Borovsky Hideaki Teshima	Dipoli conference center (Room Palaver) High pressure inertial focusing; integration in parallel and series Carbon Microfactory – Microfluidics for Sorting Carbon Nanotubes Generation of Interfacial Nanobubbles Controlled by Surface Wettability

Session 4 2 Invited talks 2 contributed talks	Mon. 14th, 17:00 Niels Bent Larsen Sean Searle Sofia Johansson Hélder Santos	Dipoli conference center (Kaleva Hall) 3D printing soft microfluidics for mini-organs Production of hyaluronic acid-acrylamide microgels as potential cell culture scaffolds Integrated transparent electrodes in an organs-on-chip system Fabrication of multifunctional nanoparticles by microfluidics for drug delivery and biomedical applications
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Tuesday

Session 5: 2 invited talks	Tue. 14th, 9:00 Maria Tenje Kari Ullakko	Dipoli conference center (Kaleva Hall) Introducing acoustophoresis to droplet microfluidics for particle manipulation Magnetic microactuators
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Session 6 1 Invited talk 6 contributed talks	Tue. 14th, 13:15 Anna Herland Kirsi Tappura Kosmas Ellinas Juhani Virtanen Agin Vyas Xinying Shi Anu Kärkkäinen	Dipoli conference center (Kaleva Hall) Emulating human organ function in coupled microfluidic devices Thin-film thermoelectric devices for energy harvesting and material parameter extraction Functional Plasma Micro-Nanotextured Microfluidic Devices Cost effective potentiostat design for large dynamic range measurements M-shaped Piezoelectric Microenergy Harvester for Enhanced Stress Distribution Low resistance metal-MoS2 nano-contact: realization and evaluation Minimally invasive pressure sensor catheter
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Session 7: 3 invited talks	Tue. 14th, 15:30 Peter Enoksson Pekka Pursula Frieder Mugele	Dipoli conference center (Kaleva Hall) Supercapacitors: Energy storage for wireless and less wired sensors combined with energy harvesting Millimeter wave integration concepts based on micromachining Electrowetting: a flexible tool for manipulating fluids from lab-on-a-chip to optofluidics and heat transfer
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