

# **12<sup>th</sup> MicronanoSystems Workshop**

**MSW2018**

**Espoo, Finland**

**May 13-15, 2018**



Web-site: <https://msw2018.aalto.fi/>; Mail: [msw2018@aalto.fi](mailto:msw2018@aalto.fi)

## **Important deadlines:**

Abstract (1 page) submission **extended till March 27<sup>st</sup>**

Early bird registration April 11<sup>th</sup>

## **Plenary speakers:**

David Horsley, UC Davis: Piezoelectric ultrasonic consumer MEMS

Frieder Mugele, Twente: EWOD for lab-chip, optofluidics and heat transfer

Peter Ertl, TU Wien: Sensor-integrated microfluidic devices for cell culture

## **Start-up company panel discussion, chaired by Thorbjörn Ebefors**

Tikitin (FI): MEMS timing devices, Aarne Oja, CEO

Chirp (USA): Ultrasonic position sensors, David Horsley, CTO

BioNavis (FI): Multiparametric SPR instruments, Johana Kuncova-Kallio, CEO

Quanturi (FI): Wireless monitoring for the farming industry, Nadine Pesonen CEO

Gasera (FI): Photoacoustic gas sensing, Ismo Kauppinen, CEO

## **Satellite events:**

SWS2018: Superhydrophobicity and wetting symposium May 16-17

Surface tension and wetting short course May 17-18



## **Nordic invited speakers:**

Niels Bent Larsen, DTU: 3D printing soft microfluidics for mini-organs

Anna Herland, KTH: Emulating human organ function in coupled microfluidic devices

Helder Santos, University of Helsinki: Fabrication of multifunctional nano-particles by microfluidics for drug delivery and biomedical applications

Maria Tenje, Uppsala University: Acoustophoresis to droplet microfluidics for particle manipulation

Mervi Paulasto-Kröckel, Aalto University: MEMS reliability

Joachim Oberhammer, KTH: THz MEMS: micromachining enabling new applications at millimeter and submillimeter-wave frequencies

Peter Enoksson, Chalmers: Supercapacitors: Energy storage for wireless and less wired sensors combined with energy harvesting

Kari Ullakko, Lappeenranta Univ. of Technology: Magnetic microactuators

Pekka Pursula, VTT: Millimeter wave integration concepts based on micromachining

## **Papers from academia and industry are invited in the areas:**

-micro & nanodevices

-RF-MEMS

-micro & nanofabrication

-sensor systems

-sensors & actuators

-novel materials for micro- and nanotechnologies

-microfluidics

-MEMS packaging and reliability

-biomicrosystems

## **Welcome!**

Sami Franssila, chair

Robin Ras, co-chair

