



## This Week's News

We are entering the final phase of the Transducers-Eurosensors 2019 preparation. We are pleased to announce a high-quality technical program of contributed and invited talks.

### Monday, 24 June

On **Monday 24 June**, after the plenary talk by Professor Don Ingber from Harvard on Organ-on-Chips, we have 5 sessions covering the latest topics in Bio-Microfluidics, Chemical Sensors, Acoustic Devices, Soft-Robotics as well as Lithography and 3D Printing.

Newest trends in **Bio Microfluidics** will be presented by speakers from **John Hopkins, Beijing University of Chemical Technology, Keio University, University of Tokyo and Columbia University**, as well as from **China-Japan Friendship Hospital, the Institute of Electronics, Chinese Academy of Sciences, Kanagawa Institute of Industrial Science and Technology, the State Key Laboratory of Transducer Technology and from Sharp Corporation**. The papers include among others the detection of cancer biomarker, stochastic biosensors, and several micro-cytometry approaches.

In a dedicated session on **Chemical Sensors** will feature speakers from the Universities of **Kyoto and Fukui, Michigan, Iowa State and University of Nebraska, Lincoln, Tsinghua and UC Berkeley**, and **Tianjin** and from the **Chinese Academy of Sciences**. Papers include X-Ray and chromatographic microsystems, DNA-based Pb and Hg sensors, Plant nitrate sensor, chemical vapor sensing by graphene FET, and chemical warfare agent detection.

A session on **Acoustic Devices** shows work by **U-Washington, Deurion LLC and U-Maryland** on droplet based mass spectrometry, **Cornell** on CMOS GHz imager, **Zhejiang University** on mechanical logic computation, **Sandia National Labs** on GaAs/LiNi acoustoelectric systems, **University of Myongji**, bubble microstreaming, and **CEA LETI** will report on new integrated photoacoustic microphone for gas sensing.

In **Soft Robots and Actuators** session, 6 contributions present recent advances **National Chung Cheng University, Tsinghua University, Chuo University, Toyama Industrial Technology Center, University of Freiburg** as well as **UC Berkeley and US Army**. The topics include electroactive polymer actuator, micro pneumatic actuator, soft robot and micro-gel robot with soft-rigid hybrid structure, silicon microrobot, and artificial muscle actuators.

In **Lithography & 3D Printing** session, recent advances in patterning technologies will be reported by six academic/research groups from across the globe (**Georgia Institute of Technology, Kansas State University, Chinese Academy of Sciences,**

University of Bremen, and CSEM). The work shown includes work in UV-LED lithography, Protein lithography, direct laser writing, 3D printing in silk and 3D printing of MEMS.

[View Program](#)

Sponsored by:

