Micro Electro Mechanical System Workshop
MEMS

"Microfabrication create Micro Systems"

28 DECEMBER 2011

Workshop Overview

Micro-Electro-Mechanical-Systems (MEMS) has been the focus of worldwide research and development efforts for the past ten years. These emerging fields involve fundamental research and the unique design and ineering of sophisticated integrated mechanical, electronic and optical systems on the micro-scale.

The scientific field of MEMS is multidisciplinary and involves the collaborative efforts of researchers from diverse fields such as physics, chemistry, mechanics, electronics, materials science and computer science. Extensive research in these disciplines is currently being directed towards obtaining a better understanding of the micro-scale phenomena encountered in MEMS devices.

The economical and practical benefits of MEMS applications are enormous. The technology is an offshoot of standard design techniques and batch fabrication methods used in the microelectronics chip industry.It enables the realization of very small, highly sophisticated, accurate and reliable systems at a very low cost. The development of a MEMS infrastructure and the promotion of MEMS-based industries are a priority allover the industrial countries. Now Egypt is accessing this field.The proposed workshop will offer a unique opportunity for researchers to interact and form new collaborations to enhance cooperation between researcher to promote the MEMS research and local high-tech industries in Egypt.

The workshop will focus on aspects of MEMS technology and development which are of particular interest to Egypt-Japan University of Science and Technology (E-JUST) and many other Egyptian universities. The workshop will combine keynote lectures, and smal l workgroup gatherings designed to promote collaboration between researchers.

Workshop Scope

- Micro/Nano systems
- Microelectronics
- Micro sensors and actuators
- Micro fluidics
- Energy harvesting devices
- MEMS Software.

For Participation Kindly inform (Before 17/12/2011)

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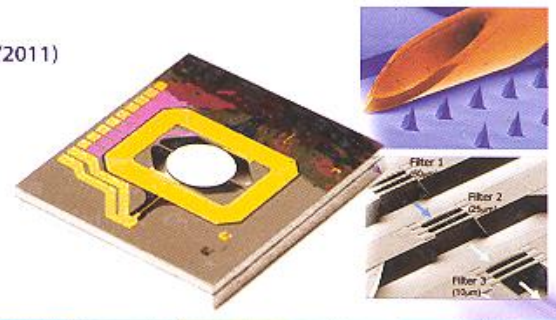

Speakers

Prof. O.Tabata - Kyoto University - Japan — "Integration of Nanostructure with MEMS"
Prof. Kotera - Kyoto University - Japan
Prof. S.Sedki - AUC - Egypt — "MEMS at AUC"
Dr. Fath El-Bab - Assiut University - Egypt (Coordinator) — "Micro-fabrication creates Micro systems"