

APCOT 2010

The 5th Asia-Pacific Conference on Transducers and Micro-Nano Technology

Co-organised and co-located with IMCS-13*

July 6-9, 2010 Perth, Western Australia

hosted by: The University of Western Australia

The Asia-Pacific Conference of Transducers and Micro-Nano Technology (APCOT) provides interaction between attendees, presenters and exhibitors in the field of sensors, MEMS, as well as micro and nano photonics. The biannual APCOT meeting is a premier event with a history of four successful conferences that were held in Xiamen, China in 2002, in Sapporo, Japan in 2004, in Singapore in 2006, and in Tainan, Taiwan in 2008. Since 2002 the number of participants has increased from 300 to over 500.

APCOT is devoted to all aspects of solid-state sensors, microactuators, microsystems enabled by MEMS and nano technologies. The official proceedings of the meeting will consist of selected papers that are peer reviewed and published as special-issue of the journals *Sensors and Actuators A* and *Journal of Micro/Nanolithography, MEMS, and MOEMS (JM3)*.

Conference Co-Chairs:

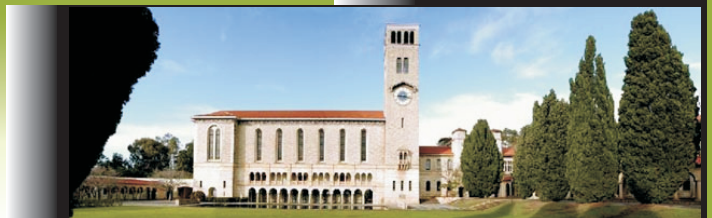
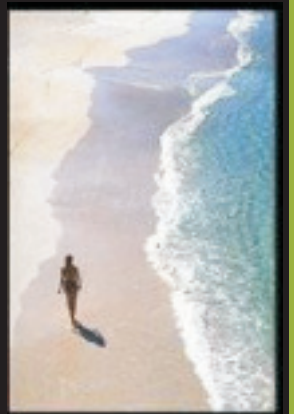
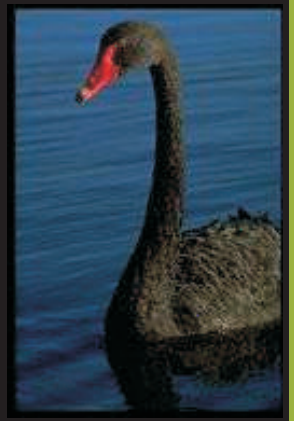
Prof. John Dell
The University of Western Australia

Prof. Wojtek Wlodarski
RMIT University

(*) The 13th International Meeting on Chemical Sensors
(July 11-14, 2010)

See IMCS13.ee.uwa.edu.au

A substantial reduction in fees applies for
registration for both IMCS-13 and APCOT2010



THE UNIVERSITY OF
WESTERN AUSTRALIA
Achieving International Excellence



apcot2010.ee.uwa.edu.au

APCOT 2010



Conference Topics

1 - Theory, Design, Analysis of MEMS and NEMS

2 - Nano Devices and Nanotechnology

3 - Materials and Device Characterization

New materials, materials characterization, interaction of materials, and coatings.

4 - Fabrication Technologies

Technology oriented: deposition, coating techniques, etching processes, ion-beam processing, FIB, e-beam techniques, micromachining techniques, and EDM.

5 - Packaging and Assembly Technology

Coatings for protection, harsh environment techniques, wafer bonding, wafer-level packaging, parallel assembly processes, self-assembly processes, and hermetic sealing.

6 - Mechanical and Physical Sensors

Pressure sensors, accelerometers, flow sensors, temperature sensors, proximity sensors, inclinometers, gyroscope, inertial devices, position, velocity, and magnetic sensors.

7 - Chemical Sensors and Microsystems

Electro-chemical sensors, potentiometry, amperometry, voltammetry, conductometric, enzyme-based sensors, and gas sensors.

8 - Bio Microsystems and Fluidic Systems

Lab-on-chip, microTAS, DNA systems, biomolecular devices, PCR, cell handling, and fluidic devices.

9 - Actuators

Micromotors, electrostatic actuators, piezoelectric actuators, pumps, valves, nozzles, and active microchannels.

10 - Optical MEMS and Nano-optics

Mirrors, diffraction gratings, switches, and optical communication subsystems.

11 - RF MEMS/NEMS

Micro/Nano components and subsystems for RF communications, filters and switches, and RF power sensors.

12 - Sensing Systems, Algorithms and Sensor Networks

New approaches to sensor data fusion; ultralow-power sensor and communication design, telemetry systems and implantable monitoring systems, power scavengers, inductive powering for sensor and actuator systems; innovative sensor interface circuits.



THE UNIVERSITY OF
WESTERN AUSTRALIA

Achieving International Excellence



apcot2010.ee.uwa.edu.au