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THE UNIVERSITY OF
WESTERN AUSTRALIA
School of Electrical, Electronic
and Computer Engineering

22-24 September 2008 Margaret River, Western Australia

NANOE3 2008

**Nanotechnology for Electronics, opto-Electronics and
Electro-mechanical systems**



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The aim of Italian-Australian NanoE3 2008 Conference: Nanotechnology for Electronics, opto-Electronics and Electro-mechanical systems is to bring together contributors in technologies related to the semiconductor industry which have revolutionised and underpinned advanced technological innovation in the world over the past 50 years. The conference aims to show that such technologies will continue to drive advanced economic growth around the globe for the foreseeable future, and that a nanotechnology revolution is currently underway as related to these topics. In addition, the conference, in which both Italy and Australia have strong research activities, will provide a unique opportunity to establish links between Italian and Australian participating researchers and organisations.

Some of the specific topics included:

- Semiconductor materials, including materials such as compound semiconductors,
- Semiconductor devices, including electronic, optoelectronic and micro-electromechanical systems (MEMS) devices,
- Semiconductor nanotechnology, including nano-scale devices,
- Semiconductor nanostructures, including quantum wells, superlattices, porous semiconductors, nanotubes/wires, etc
- Theory, modelling, characterisation and reliability of nanostructures and nano-devices.

Financial support was provided by the Italian Embassy in Australia, the Australian Research Council (ARC) Nanotechnology Network, ARC Research Network for Nanotechnology, Australian Academy of Science, and The University of Western Australia.

This conference has the potential to make a major impact relating to nanotechnology in Australia and Italy, and make a significant contribution towards enhancing research collaboration between the two countries.

The conference had a total of about 50 participants:

- 10 invited speakers from Italy,
- 10 Australian invited speakers,
- 15 Aust PhD and ECRs,
- 15 other registrants.