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**http://commad2010.anu.edu.au**

**COMmad**  
2010 Conference on Optoelectronic and Microelectronic Materials and Devices  
Second Announcement & call for papers  
12-15 December 2010  
The Australian National University  
Canberra, Australia
Scope of conference

The aim of the 2010 Conference on Optoelectronic and Microelectronic Materials and Devices is to bring together industrial collaborators, scientists, engineers and students to discuss new and exciting advances in the fields of optoelectronic and microelectronic materials and devices. COMMAD’10 will provide a forum to present and discuss recent advances in materials theory, growth, processing and characterisation as well as device physics, design, fabrication, testing and applications, including nanotechnology.

Contributed papers are solicited describing original work in the field of:

- Technologies and Theories for Microelectronics, Optoelectronics and Photonics
  - Epitaxy, bulk growth, substrates, optical fibres
  - Artificial structured materials
  - Nanostructure fabrication of novel materials systems, such as self-organised quantum dots, nanowires, metamaterials and optical fibres
  - THz and ultrafast phenomena
  - Electronic, optical and magnetic material properties and characterisation

- Electron Devices and Systems
  - Heterostructure transistors, high-speed devices and integrated circuits
  - High power and high temperature semiconductor devices
  - Sensors
  - Spin injection and novel devices
  - Micro/Nano-Electromechanical Systems
  - Nanoelectronics

- Optoelectronic/Photonic Devices and Systems
  - Semiconductor LEDs and lasers
  - Detectors, modulators, switches
  - Photonic bandgap structures and devices
  - Plasmonic devices
  - Devices for optical interconnection, OEICs
  - Microwave and THz Photonics
  - Nanophotonics
  - Solar cells
  - Fibre-based devices

An interesting and varied scientific programme is planned with invited presentations (30 minutes), contributed papers (15 minutes) and poster presentations. In addition there will be a workshop and trade exhibition during the conference.

Tentative list of invited speakers

- Prof. Erik Bakkers, TU Eindhoven
  (Periodic nanowire structures)
- Prof. Catrina Bryce, Glasgow
  (High frequency mode-locking of laser diodes)
- Dr. Kylie Catchpole, ANU
  (Plasmonic solar cells)
- Prof. Jim Coleman, Illinois
  (Patterned quantum dot and nanopore laser)
- Prof. Sorin Cristoloveanu, IMEP/ ENSERG
  (SOI Promises for speed, energy and memory)
- Prof. Takashi Fukui, Hokkaido
  (Fabrication of III-V semiconductor core–shell nanowires by SA-MOVPE and its device applications)
- Prof. Yoshiro Hirayama, Tohoku

(Nuclear–spin resonance in compound semiconductor two-dimensional systems)

Dr. Michael Johnston, Oxford
(THz characterization of nanostructures)

Prof. Wei Lu, SITP
(Junction temperature measurement on the Light-Emitting Diodes lamp for space applications)

Prof. Paul Mulvaney, Melbourne
(Nanocrystal/nanosensors)

Prof. Tomas Palacios, MIT
(Advanced electronic devices)

Prof. David Ritchie, Cambridge
(Single photon sources/detectors)

Abstract submission

Abstract/paper submission will be slightly different to past conferences. This year presenters will be submitting extended abstracts (two A4 pages, with results and discussion) as part of the abstract submission process. The extended abstracts will be fully peer-reviewed and handed to all participants during the conference. No other conference proceedings would be published.

Extended abstract submission should be done electronically via the conference website.


Important dates

- Extended Abstract Submission: 30 Jul 2010
- Notification of Acceptance: 30 Aug 2010
- Author Registration Deadline: 22 Oct 2010