



AND



**3rd International Conference on Materials for
Advanced Technologies (ICMAT 2005)**

**9th International Conference on
Advanced Materials (ICAM 2005)**

3 - 8 July 2005, Singapore

Organized by The Materials Research Society of Singapore

SYMPOSIUM G: NANODEVICES AND NANOFABRICATION

Chair: Qing ZHANG, Nanyang Technological University, Singapore

Co-Chairs: Bill MILNE, University of Cambridge, UK
Sean O'SHEA, Institute of Materials Research & Engineering, Singapore
Soon Fatt YOON, EEE, Nanyang Technological University, Singapore
Wei ZHOU, MPE, Nanyang Technological University, Singapore

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Scope of Symposium:

A variety of devices at nanometer scale/molecular scales for electronic, biological and mechanical applications have been created through rapid development of materials and fabricating technology. Further development of such devices strongly depends on the state-of-the-art knowledge of science and technology at the sub-100nm length scale. With this consideration, the symposium serves as a forum for highlighting advances in the following topics.

Topics of Interest:

- Electronic devices of nanometer scale/molecular scale
- Nanomechanics and NEMS
- Synthesis and characterization of nanostructures
- Fabrication technology for nanodevices and nanostructures
- Manipulation and aligning processes at the nanometer scale/molecular scale
- Quantum phenomena
- Modelling of nanodevices and nanostructures

Invited Speakers (Partial List):

Dr. Mafafumi ATA (National Institute of Advanced Applied Science and Technology, Japan)
Dr. Tamio ENDO (Mie University, Japan)
Dr. Hong GUO (McGill University, Canada)
Dr. Larry A. NAGAHARA, (Motorola Labs, USA)
Dr. Mark LANTZ (IBM Zurich, Switzerland)
Dr. Bill MILNE (University of Cambridge, UK)
Dr. Steven PRAWER (The University of Melbourne, Australia)
Dr. Jacob SAGIV (Weizmann Institute, Israel)
Dr. S. R. P. SILVA (University of Surrey, UK)

ICMAT Secretariat

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Dr. Donglu SHI (University of Cincinnati, USA)
Dr. Yasuo WADA (Waseda University, Japan)
Dr. A.T.S.WEE (National University of Singapore, Singapore)
Dr. Yifei ZHANG (Shanghai Jiao Tong University, China)

Scientific & Local Organising Committee

Dr. Jaeshin AHN (School of EEE, Nanyang Technological University, Singapore)
Dr. Bee Eng CHAN (School of MPE, Nanyang Technological University, Singapore)
Dr. Changming LI (School of EEE, Nanyang Technological University, Singapore)
Dr. Changqing SUN (School of EEE, Nanyang Technological University, Singapore)
Dr. Xiaowei SUN (School of EEE, Nanyang Technological University, Singapore)
Dr. Shuyan XU (National Institute of Education, Singapore)
Dr. Xing ZHOU (School of EEE, Nanyang Technological University, Singapore)
Dr. Gang ZOU (Applied Materials South East Asia Pte Ltd, Singapore)

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Professor Carl V Thomson, Massachusetts Institute of Technology, USA
Professor Stan Veprek, Technical University of Munich, Germany
Professor L. M. Wang, University of Michigan at Ann Arbor, USA
Professor Zhiping Yu, Tsinghua University, China

Proceedings:

Selected, refereed papers from the symposium will be published as a special issue of International Journal of Nanoscience.

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