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NTU organises high-level nanoelectronics workshop to examine
the next generation of computing platforms

Nanyang Technological University (NTU) is organising the inaugural Institute for Sustainable Nanoelectronics (ISNE) workshop from 29 to 31 October 2007. Distinguished and world renowned experts will gather at this pioneering conference to discuss the future of this exciting field. Topics include the next generation of nanocomputing and semiconductor engineering, and the challenges in advanced silicon processing technology.

Distinguished speakers that will be addressing the workshop include Professor Michael Rabin from Harvard University, Professor James Meindl from Georgia Institute of Technology, Professor Alain Martin from California Institute of Technology and Dr Norm Jouppi from Hewlett-Packard.

Under the theme of “Interplay between computing and nanoelectronics for the next generation computing platforms”, experts from around the world will be sharing their views and insights on the following topics:

- Overcoming Complexity in Computations via Probability and Randomness
- Nanoelectronics: Retrospect and Prospect
- Shrinking Devices & Quantum Limit
- The Future Evolution of High-Performance Microprocessors
- Sustaining Moore’s Law, Nanocomputing and Value of Information
- Challenges in Advanced Silicon Processing Technology
- Engineering Semiconductors for Semiconductor Engineering: New Materials, Devices and Markets
- Asynchronous Logic for nano-electronics
- Micro-architectural modifications to improve processor reliability in the nanoelectronics era

Professor Pan Tso-Chien, Dean of College of Engineering, NTU, says, “We are very honoured to have the attendance of many eminent researchers and experts in the area of nanoelectronics at the inaugural ISNE workshop. I am confident that with NTU’s strength in electronics research, coupled with the support from international experts, we will be able to achieve some breakthroughs in the area of sustainable nanoelectronics research.”
The Institute for Sustainable Nanoelectronics (ISNE) was formed on 4 September 2007, a collaboration between NTU and Rice University. ISNE hopes to evolve a design methodology that will be applicable not only to today's complementary metal–oxide semiconductors, or CMOS, but also to emerging computing platforms based on photonics and nanotechnology.

Under the leadership of Professor Krishna Palem, Canon Visiting Professor at NTU’s School of Electrical and Electronic Engineering and the Ken and Audrey Kennedy Professor in Computer Science at Rice University in Houston, ISNE aims to become an international centre of excellence for nanoelectronics research in five years. The ISNE workshop is the first platform to initiate this international collaboration which will provide strategic guidance to ISNE for its research agenda.

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About Nanyang Technological University

Nanyang Technological University (NTU) is a research-intensive university ranked among the top 20 technological universities. The university has two campuses in Singapore. The Yunnan Garden campus, NTU’s main campus, is located in the southwestern part of Singapore. The NTU@one-north campus, home to educational and alumni clubhouse facilities, is located near Singapore’s biomedical research hub, Biopolis; and the new infocomm and media hub, Fusionopolis.

NTU has four colleges comprising 12 schools. The College of Engineering comprises six schools focused on technology and innovation. Its research output ranks among the top four in the world. The College of Science pushes the boundaries of Singapore’s life sciences initiatives. The Nanyang Business School (the College of Business) offers one of the world’s top 100 MBA programmes. The College of Humanities, Arts, & Social Sciences boasts Singapore’s first professional art school offering degree courses in art, design and interactive digital media, the Humanities and Social Science School, and the Wee Kim Wee School of Communication and Information, a top journalism and media school in Asia.

The 13th school, S Rajaratnam School of International Studies, was inaugurated on 1 January 2007. An important component of this autonomous school is the Institute of Defence and Strategic Studies, long recognised as a world authority on strategic studies and terrorism. NTU is also home to the internationally-acclaimed National Institute of Education, Singapore’s only teacher-training institute.

NTU has in place multi-country programmes and initiatives with established institutions worldwide. Key partners include MIT, Stanford University, Cornell University, Caltech, University of Washington, Georgia Institute of Technology, Carnegie Mellon University in USA, Peking University, Shanghai Jiaotong University, Waseda University, Indian Institute of Technology in Asia, Cambridge University, Imperial College and Swiss Federal Institute of Technology in Europe.

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