NANOTECHNOLOGY BUSINESS OPPORTUNITIES FORUM

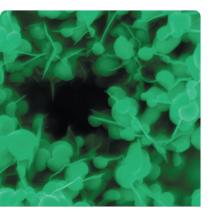


MERITUS MANDARIN, SINGAPORE

16th July 2004

Fee: SGD 380 nett (inclusive of lunch)

For enquiries and registration, please contact Ms Kelly CHONG of Meet Matters International at kpchong@meetmatt.net or Tel 6466 5775 Ext 222



Invitation from Organizers

"Nanotechnology may well rival the development of the transistor or telecommunications in its ultimate impact."

- Charles M. Vest, President, Massachusetts Institute of Technology

"Nanotechnology has given us the tools. . . to play with the ultimate toy box of nature – atoms and molecules. Everything is made from it. . . . The possibilities to create new things appear limitless. . . ." – Horst Stormer, Nobel Laureate, Columbia University & Lucent Technologies

Nanotechnology is making the great leap forward from the laboratory to the factory floor. Near-future nanotechnology applications involve everything from scratch-proof surface coating to internal drug delivery systems. If you are interested to explore these opportunities, you are invited to attend the "Nanotechnology Business Opportunities Forum" in Meritus Mandarin on 16 July 2004.

The one-day Forum is part of the three-day international conference - Nanotech 2004 (www.nanotech2004.org). The Forum is especially tailor-made for busy people working in industry and business to meet academics and gain some insight into nanotechnology within a single day. In the plenary session in the morning, five keynote speakers will tell you the latest nanotechnology developments in many parts of the world including Singapore, and the 8 break-up sessions in the afternoon will feature areas with good business potential, including:

- Nanometrology
- Nanostructured Materials
- Nanofabrication & Nano-devices
- Nano-photonics & Nano-optoelectronics
- Computational Nanoelectronics
- Nanoimprinting & Nanolithography

The Forum has already attracted good participation from industry. The participating companies include not only the biggest names such as FEI, Veeco, Carl Zeiss, Raith, Shimadzu and IBM but also new nanotechnology start-ups such as Molecular Imprints from USA and WITec from Germany. Hope you will participate as well.

Prof. Wei ZHOU

Nanyang Technological University (NTU) Chair, Organizing cum Technical Committee E-mail: MWZhou@NTU.EDU.SG Tel: 6790-4700

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Program for Nanotechnology Business Opportunities Forum

Friday, 16 July 2004

14:40

Invited

Plenary Session Ballroom 3, Meritus Mandarin Level 8 – South Tower

09:00	Opening		
09:10	Keynote	Nanotechnology Applications in Singapore and the Region - NanoFrontier Prof. Bryan Ngoi Director of Nanoscience & Nanotechnology Corridor, Nanyang Technological University, and Director of NanoFrontier (EDB-sponsored nanotech company)	
09:40	Keynote	Progress of Nano Science and Technology in China Prof Chunli Bai Key laboratory of Molecular Nanostructure and Nanotechnoloy, Academician & Deputy President, Chinese Academy of Sciences	
10:10	Break - Ballroom 1, Level 6 - South Tower		
10:40	Keynote	35-MPP-A1030 Nanostructure Processing of Advanced Biomaterials Prof. Jackie Ying Director, Institute of Bioengineering and Nanotechnology	
11:10	Keynote	Nanostructured Materials: from Quantum Dots to Organic Molecules Prof. Federico Rosei Canada Research Chair in Nanostructured Organic and Inorganic Materials, Université du Québec, Canada	
11:40	Keynote	35-GEN-M182 Nano-technology under the Microscope: Advanced Particle Beam Technologies for Nano-characterization and Nano-fabrication Dr. Jens Greiser Strategic Marketing Manager, FEI Company, Eindhoven, Netherlands	
12:10	Lunch - Mand	arin Court, Level 4 - Main Tower	
Ballroo Level 8	up session A1 - m 3, Meritus Ma – South Tower Dr Hongyu ZHI		
13:50		Invited 35-FUT-A709 Artifacts in Transmission Electron Microscope Specimens Prepared Using the Focused Ion Beam Miller Prof. Paul Munroe, Dr. Julie Cairney, Dr. Sergey Rubanov, University of New South Wales, Australia	
14:15		Invited 35-GEN-M163 Fabrication and Photochromism Property of Ag Doped TiO2 Thin Films L. Miao, T. Watanabe, S. Tanemura, T. Jiang, P. Jin, M. Mori, S. Toh, K. Kaneko, Nagoya Institute of Technology, Japan	

14.40	35-OTH-M156 Disordered Nano-magnetic Thin Films for Brand Protection Tags Dr. Adrian P. Burden, Zhao Yan, Kong Yen Peng, Vincent Lim Justin Song, Vladislav Apostolyuk, Tan Yee Yuan, Wai Maung Maung Peter Moran, IMRE, Singapore
15:05	Invited 35-CNN-M168 Fabrication of Field Emission Display using Nanostuctured Carbon Film Z. Sun, Y.W. Chen, P.S. Guo, T. Chen, Z.J. Zhang, L.L. Wang, Z.Y. Cao, S. Ni, Z. Zheng,
	Y. Sun, B.K. Tay, Shanghai Nanoking Technology Co., China, Nanocs International Inc., USA, & NTU

Break-up session A2 - Nanofabrication & Nano-devices

Ballroom 3, Meritus Mandarin Level 8 – South Tower Chair: Dr. Zhiqiang GAO

16:00	35-UPM-A939 Innovative Fabrication Method of 4¢¢ Thin LiNbO3 layer on Si Substrate for High Frequency Modulators Mr. Yem-Yeu Chang, Mr. Chia-Jen Ting, Dr. Hung-Yin Tsai, MEMS Division, Mechanical Industry Research Laboratories, Industrial Technology Research Institute, Taiwan
16:20	35-NND-A1015 F1-ATPase Molecular Motor Based Single-Molecule Biosensor Dr. Liyan He, Dr. Raimund Fromme, Ms. Ana Benston, Prof. Wayne Frasch, Arizona State University, USA
16:40	35-MNS-A1078 Evaluation of Current-carrying Wires for Manipulation of Magnetic Micro/Nano Particles for Biomedical Applications Mr. Qasem Ramadan, Prof. Daniel Poenar, Dr. Victor Samper Dr. Chen Yu, Institute of Bioengineering and Nanotechnology etc.
17:00	End

Break-up session B1 - Nanostructured Materials

Room 835, Meritus Mandarin Level 8 – South Tower Chair: Prof. Ai Kah Soh

- 13:50 Invited 35-MPP-A765 Mechanical Properties of Ferroelectric Ceramic Nano-composites Prof. Ai Kah Soh, Dr. Kwok Lun Lee, Dr. Xiao Xing Wang, Dr. Kin Wing Kwok, University of Hong Kong
 14:15 35-MPP-A932 Development of Novel Lead-free Solder Composites using Carbon Nanotube Reinforcements Prof. Manoj Gupta, Ms. Mui Ling Sharon Nai, Dr. Jun Wei
 14:35 35-MPP-M136
- Production and Grain Stability of Nanocrystalline Fe-Si Powders and the Effects of Aluminium Addition Mr. B. Zuo, N. Saraswati, T. Sritharan, H. H. Hng
- 14:55 35-MPP-M140 Nanofibers in CdTe: Iodine Thin Films by Spray Deposition Prof. V. Dutta, Mr. A. Ranga Rao
- 15:15 35-MPP-M148 Preparation of CdS Nanorods by Chemical Bath Deposition Prof. Gaoling Zhao, Jinjian Yang, Gaorong Han
- 15:35 Break Ballroom 1, Level 6 South Tower

Break-up session B2 - Nano-photonics & Nano-optoelectronics

Room 835, Meritus Mandarin Level 8 – South Tower

- Chair: Dr. Adrian P. Burden
- 16:00 35-NPN-A977 Deep Reactive Ion Etching for Pillar Type Nano-Photonic Crystal Ms. H. G. Teo, J. Singh, M. B. Yu, N. Ranga, J. Li, W.C. Yew, A. Q. Liu
 16:20 35-NPN-A978
- Optical Nonlinearity of Au Metal Nanoparticle Dispersed (Ba,Sr)TiO3 Thin Films Dr. Kyeong-Seok Lee, Mr. Seung-Hyun Yoon, Dr. Byungki Cheong, Mr. Taek-Sung Lee, Mr. In-Ho Kim, Dr. Won-Mok Kim
- 16:40 35-NPN-M129 Intermixing of Quantum-Dot Heterostructures Dr. B.S. Ooi, O. Gunawan, H.S. Djie

- 17:00 35-NPN-M162 Fabrication Technology for Photonic Crystal Waveguide on Silicon on Insulator Substrate Sohan Singh Mehta, Doan My The, Zhao Hui, Suryani Rakesh Kumar, Wei Ji
- 17:20 End

Break-up session C1 - Nanometrology

Room 836, Meritus Mandarin Level 8 – South Tower Chair: Dr Gan XU

- 13:50 Specially Invited Application of SNOM & Confocal Raman in Nanotechnology, Bio-Engineering and Life Science Dr. Klaus Weishaupt, Co-founder & Managing Director, WITec Wissenschaftliche Instrumente und Technologie GmbH, Ulm, Germany
- 14:15 35-NMA-M105 Raman Elucidation of Dimmer-bond Vibration L.K.Pan, Chang Q Sun, C.M.Li, S.Li
- 14:35 35-NMA-A1172An Innovative In-line Wafer Defects Detection System for Semiconductor Industries Dr. Ganesha Udupa, Prof. Bryan Ngoi Kok Ann, Dr. Freddy Goh H.C
- 14:55 35-NMA-A923 A New Scheme to Realize the Measurement Standard of Microforce Prof. Hsien-Chi Yeh, Dr. Sheau-shi Pan, Prof. Jun Lou
- 15:15 35-NMA-M102 Breaking Limit of Atomic Distance in a Metallic Monatomic Chain Chang Q Sun, C.M.Li, S.Li, B.K.Tay
- 15:35 Break Ballroom 1, Level 6 South Tower

Break-up session C2 - Computational Nanoelectronics

Room 836, Meritus Mandarin Level 8 – South Tower Chair: Prof. Xing ZHOU

- 16:00 Invited 35-CNA-A899 Modeling of Deep-submicron MOSFET Drive Current Dr. Francis Benistant, Charted Semiconductor 16:25 35-CNA-A816 Eneraetics of Copper Nanowires Mr. Jayasanker Jayabalan, Dr. OOi B. L, Dr. Jayaganthan Rengaswamy, Prof. Andrew A.O.Tay 16:45 35-CNA-A837 Influence of Electrode/Molecule Interface on Electron Transport Dr. Ping Bai, Dr. Erping Li 17:05 35-CNA-M106 Control of the Edge Effect in a Tri-Gate MOSFET using Channel Corner Rounding Technique Mr. Kian Meng Tee, S. Jagar, G.S. Samudra, K.W. Leong, Y.S. Li, K.J. Chui, Y.T. Chan, K.C. Tee, L.H. Chan
- 17:25 End

Break-up session D1 - Nanoimprinting & Nanolithography Room 837, Meritus Mandarin Level 8 – South Tower Chair: Mr Stephen WONG Chee Khuen

13:50	Invited 35-NNA-A1090 The Impact of Step and Flash Imprint Lithography for Nano bio Applications Dr. Michael Watts, Ian McMackin, Jin Choi, Philip Schumaker, Van Nguyen, Frank Xu, Ecron Thompson, Daniel Babbs, S.V. Sreenivasan, Nick Stacey, Molecular Imprints Inc, USA
14:15	Invited 35-NNA-A873 Physical and Chemical Nanolithography Techniques: Challenges and Prospects Dr. Jun Wei, Dr. Zhongping Fang, Singapore Institute of Manufacturing Technology
14:40	35-NNA-M155 Direct Writing of sub-10 nm Oxide Nanostructures using an Electron beam M. S. M. Saifullah, K. R. V. Subramanian, D-J. Kang, M. E. Welland, Cambridge University, UK
15:00	35-NNA-M118 100 KeV and 50 KeV Electron Beam Nanolithography Processes Comparison Mr. L. Mollard, C. Comboroure, N. Martin, C.E.A, GRENOBLE, France
15:20	35-NNA-M120 Nanofabrication by X-ray lithography at SSLS Dr. O. Wilhelmi, J.R. Kong, B.D.F. Casse, B.T. Saw, Shahrain Bin Mahmood, S. Heussler, M. Dasch, T. Waterstradt, H. O. Moser, SSLS-NUS
15:40	Break - Ballroom 1, Level 6 - South Tower

Break-up session D2 - Nanoimprinting & Nanolithography Room 837, Meritus Mandarin Level 8 – South Tower Chair: Dr Jun WEI

16:00	35-NNA-M109 Plasma Activated Bonding of Imprinted Polymer Features structured by Hot Embossing for Packaging Applications R. Pelzer, T.Glinsner, S. Farrens, V. Dragoi, P. Kettner, D. Lee, EV Group, Austria
16:20	35-NNA-M150 Performance of PMMA for Nano-dot Patterning Using Electron-beam Lithography Narayanan T V, Sohan Singh Mehta, My The Doan, Suryani, Zhao Hui, Balasubramanian N, Yoon Soon Fatt, IME & Singapore-MIT Alliance
16:40	35-NNA-A747 Morphology Evolution of an Asymmetric Diblock Copolymer P(S-b-MMA) as a Function of Film Thickness and Annealing Time Mr. Hai Wang, Dr. Mao Hai Xie, Dr. Aleksandra B Djuri_i_, Mr. Hai Wang, Dr. W. K. Chan, Dr. Oleksandra Kutsay, Univ of Hong Kong
17:00	End

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