

Preliminary

Taiwan International Conference on Nano Science and Technology (TICON 2004)

June 30 to July 3, 2004

Center for Nano-Science and Technology,
University System of Taiwan

June 30, 2004 (Wednesday)

Opening (Registration & Refreshments and Coffee) TIME : 08:00-09:00 SITE : Lobby, Physics Building, NTHU	
Plenary Session I SITE : Basement 002, Physics Building, NTHU	
Chairman : Prof. Cheng-Chung Chi (Director, Center for Nano Science and Technology, University System of Taiwan / Department of Physics, NTHU)	
09:00-09:40	<u>Honorable Guest Speakers</u> Prof. Chao-Han Liu (President, University System of Taiwan) Prof. Chuan Sheng Liu (President, National Central University) Prof. Chun-Yen Chang (President, National Chiao Tung University) Prof. Hsia-San Shu (President, National Tsing Hua University) Prof. Yan-Hwa Wu Lee (President, National Yang Ming University)
09:40-10:20	Overview of Taiwan National Program on Nanoscience and Nanotechnology Prof. Maw-Kuen Wu (Director, Institute of Physics, Academia Scinica)
10:20-10:50	Coffee Break
10:50-11:30	Quantum Dot Array for Simulating Strongly Correlated Electron Systems Dr. Chang-Chyi Tsuei (IBM Thomas J. Watson Research Center, USA)
11:30-12:10	High Speed Quantum Dot Lasers for Novel Photonic Systems Prof. Dieter Bimberg, Dr. Matthias Kuntz (Institutes of Physics, Technische Universität Berlin, Germany)

12:10-13:30 Lunch			
Session I – Nanoelectronics SITE : Basement 002, Physics Building, NTHU		Session II – Nanobiotechnology SITE : Basement 019, Physics Building, NTHU	
Chairman : Prof. Tai-Bor Wu (Director, Material Science Center & Department of Materials Science and Engineering, NTHU)		Chairman : Prof. Tian Yow Tsong (Institute of Physics, Academia Sinica)	
13:30-14:00	Nanomagnetics in Nanoparticles, Nanowires and Thin Films Prof. Tsung-Shune Chin (President, National United University / Department of Materials Science and Engineering, NTHU)	13:30-14:00	Surface Enhanced Raman Scattering Spectroscopy and Imaging in Cell and Molecule Monitoring Prof. Huihua Chiang (Institute of Biomedical Engineering, NYMU)
14:00-14:30	Nanoimprint Technology and its Applications in Photonics and Biotechnology Prof. Lingjie (Jay) Guo (Department of Electrical Engineering & Computer Science, University of Michigan, USA)	14:00-14:30	The Design of Semiconductor Biosensors: From Submicron CMOS Photodiode to Carbon Nanotube Field Effect Transistor Prof. Yuh-Shyong Yang (Department of Biological Science and Technology, NCTU)
14:30-15:00	Structure and Electro-optic Properties of MEH-PPV/ TiO₂ Nanoparticles/Nanotubes Composites Prof. Peter P. J. Chu (Department of Chemistry, NCU)	14:30-15:00	A Novel Biomimic Micro/Nano Opto-Electro-Mechanical Trapping/Culture Array for Manipulation, Observation, and Measurement of Bio-objects at Nanoscale Prof. Long Shu (Institute and Department of Electrophysics, NCTU)
15:00-15:30 Coffee Break			
Session III – Nanophotonics SITE : Basement 002, Physics Building, NTHU		Session IV – Nanobiotechnology SITE : Basement 019, Physics Building, NTHU	
Chairman : Prof. Tsung-Shune Chin		Chairman : Prof. Huihua Chiang (Institute of	

(President, National United University / Department of Materials Science and Engineering, NTHU)		Biomedical Engineering, NYMU)	
15:30-16:00	Nanostructure Enhanced Organic Light Emitting Diodes Prof. Chain-Shu Hsu (Vice-Chancellor, UST / Department of Applied Chemistry, NCTU)	15:30-16:00	Nanomanipulation of Living Cells- a Window for Monitoring Single Molecule Dynamics Prof. Chi-Hung Lin (Institute of Microbiology and Immunology, NYMU)
16:00-16:30	Enhancement of Luminescence Efficiency of Dendritic Polyfluorene Copolymers by CdS Nanoparticles Prof. Kung Hwa Wei (Department of Materials Science and Engineering, NCTU)	16:00-16:30	From an Integrated Biochip Detection System to a Defensive Weapon Against the SARS-CoV Virus: OBMorph Prof. Chih-Kung Lee (Institute of Applied Mechanics, NTU)
16:30-17:00	Quantum Dot, Photonic Crystal Microcavity, and Single Photon Source Prof. Tzu-Min Hsu (Director, Center for Nano Science and Technology & Department of Physics, NCU)	16:30-17:00	Single-pair Binding Force Between the Disintegrin Rhodostomin and Integrin $\alpha_{Iib}\beta_3$ in Living Cells Using Optical Tweezers Dr. Chia-Fen Hsieh (Institute of Microbiology and Immunology, NYMU)
17:00-17:30	Growth Issues of (In,Ga)As Quantum Dots for Photonic Devices Prof. Jen-Inn Chyi (Department of Electrical Engineering, NCU)	17:00-17:30	Use of Fluorescence Resonance Energy Transfer Technology to Investigate Enterovirus Protease Activity <i>In Vivo</i> Prof. Szu-Hao Kung (Institute of Biotechnology in Medicine, NYMU)

Poster Session I – Nanoelectronics

SITE : Lobby, Physics Building, NTHU

TIME : 13:30-17:00

Paper List :

1. DYMEK ASIA COMPANY
2. Multi-walled Carbon Nanotube Electrodes and its Application to Amperometric Biosensors
Yu-Chen Tsai*, Jie-Ming Chen, Shih-Ci Li
Department of Chemical Engineering, National Chung Hsing University, Taiwan
3. Growth Mechanism of the Carbon Nanotubes with Ni Catalysts
Jian-Yang Lin, Shuu-Ru Liu* and Hsiao-Chieh Sung
Institute of Electronics Engineering, National Yunlin University of Science and Technology
4. Selective Growth of Vertically Aligned Carbon Nanotubes on Nickel Oxide Nanostructures Created by Atomic Force Microscope Nano-Oxidation
Yu-Hsien Chang¹, Jung-Hsien Yen², Ming-Hung Huang^{1*}, Ju-Hung Hsu¹, Ing-Chi Leu², Heh-Nan Lin¹ and Ming-Hsiung Hon²
¹*Department of Materials Science and Engineering, National Tsing Hua University*
²*Department of Materials Science and Engineering, National Cheng Kung University*
5. Fabrication of Gold Nanodot Arrays by Atomic Force Microscope Mechanical Lithography
Ju-Hung Hsu*, Chun-Yu Lin, Heh-Nan Lin
Department of Materials Science and Engineering, National Tsing Hua University
6. Electrical Properties of Carbon Nanotubes
Ching-Hsu Chan
Department of MIS, St. John's & St. Mary's Institute of Technology
7. Hydrogen Plasma Treatment Effects on Optical and Electrical Properties of ZnO Nanorods
Chin-Ching Lin, Hung-Pei Chen and San-Yuan Chen
Department of Materials Science and Engineering, National Chiao-Tung University
8. Mobility Enhancement of Electroluminescent Polymer Aggregates and Films Investigated by Conducting Atomic Force Microscopy
Bor-Ru Yang*, Heh-Nan Lin
Department of Material Science and Engineering, National Tsing Hua University
9. Magnetic Nanoarray via Ordered Nanopore Templates
Chun-Guay Wu*, Hu Leng Lin
Department of Chemistry, National Central University
10. High-k HfO₂ Gate Dielectric for Tensile Strained-SiC Alloy Layers
Y. S. Liu, S. Maikap^a, P. S. Chen^a and K. C. Liu¹
Department of Electronics Engineerin , Chang Gung University; ^aERSO/ITRI
11. Giant Magnetocurrent in Spin Tunneling Transistor
Y.W. Huang^{a)}, C.K. Lo^{b)}, Y.D. Yao^{c)}, L.C. Hsieh^{b)}, J.J. Ju^{b)}, D. R. Huang^{b)}, J. H. Huang^{a)}
^{a)}*Department of Material science & Engineering, National Tsing Hua Univ*
^{b)}*Lab. For spintronics, OES, Industrial Technology Research Institute*
^{c)}*Institute of Physics, Academia Sinica*
12. Novel Planarization Process on Polysilicon Surface
Sheng-Hung Cheng^a, Tsung-Kuei Kang^a, Bing-Yue Tsui^b, Wen-Lu Yang^a
^a*Department of Electronic Engineering, Feng-Chia University*
^b*Department of Electronic Engineering, National Chiao Tung University*
13. The Effect of Hafnium Contamination on Nano Device

Kuan-Liang Lin^a, Tsung-Kuei Kang^a, Bing-Yue Tsui^b, Wen-Lu Yang^a

^a*Department of Electronic Engineering, Feng-Chia University*

^b*Department of Electronic Engineering, National Chiao Tung University*

14. Towards GaAs MOSFET: MBE Growth, MESFET Processing, Characterization, and Analysis
K. Jaw¹, P. J. Tsai¹, Y. W. Chen¹, H. P. Yang², P. Chang¹, M. Hong¹, R. Kwo³, J. Chi², and J. P. Mannearts¹

¹*Department of Material Science and Engineering, National Tsing Hua University*

²*Nanophotonics Center, Opto-Electronics & Systems Laboratories, Industrial Technology Research Institute*

³*Department of Physics, National Tsing Hua University*

15. Nanoelectronics: Diamagnetic Properties of PbSe Spherical Quantum Dots
Wen-Bin Jian^{1*}, S. J. Chiang¹, Weigang Lu², Jiye Fang², C. Y. Wu³, and M. D. Lan¹

¹*Department of Physics, National Chung Hsing University*

²*Department of Chemistry and Advanced Materials Research Institute, University of New Orleans, New Orleans, LA 70148*

³*Opto-Electronics and Systems Laboratories, Industrial Technology Research Institute*

July 1, 2004 (Thursday)

Plenary Session II	
SITE : Basement 002, Physics Building, NTHU	
Chairman : Dr. Chang-Chyi Tsuei (IBM Thomas J. Watson Research Center, USA)	
08:20-09:00	The Opportunities and Challenges of Nanotechnology Dr. Tsung-Tsan Su (Director of Nano Technology Research Center, Industrial Technology Research Institute)
09:00-09:40	Fabrication and Characterization of Carbon Nanotube FETs Prof. Takashi Mizutani (Department of Quantum Engineering, Nagoya University Furo-cho, Japan)
09:40-10:20	Interface Composition and Band Alignment in Nano-electronics Prof. Eric Garfunkel (Department of Chemistry, Rutgers University, USA)
10:20-10:50	Coffee Break
Chairman : Prof. Minghwei Hong (Department of Materials Science and Engineering, NTHU)	
10:50-11:30	Inelastic Electron Tunneling Spectroscopy (IETS) Study of Ultra-thin Gate Dielectrics Prof. Tso-Ping Ma (Raymond John Wean Professor, Chairman, Department of Electrical Engineering, Yale University, USA)
11:30-12:10	Manipulation of Magnetism in Semiconductors Prof. Hideo Ohno (Research Institute of Electrical Communication, Tohoku

	University, Japan)		
12:10-13:30 Lunch			
Session V - Nanophotonics SITE : Basement 002, Physics Building, NTHU		Session VI - Nanoelectronics SITE : Basement 019, Physics Building, NTHU	
Chairman : Prof. Tzu-Min Hsu (Director, Center for Nano Science and Technology & Department of Physics, NCU)		Chairman : Prof. Ray-Nien Kwo (Department of Physics, NTHU)	
13:30-14:00	Biological Cell Tracking by Nanoporous Particles Prof. Chung-Yuan Mou (Department of Chemistry, NTU)	13:30-14:00	Spin Dynamic in Nanostructure System Prof. Ching-Ray Chang (Chairperson, Department of Physics, NTU)
14:00-14:30	Distributed-feedback Optical Parametric Amplifier and Oscillator Prof. Yen-Chieh Huang (Department of Electrical Engineering, NTHU)	14:00-14:30	Interlayer Coupling through NiFeO_x Nano-oxide Layer in IrMn/CoFe/NiFeO_x/CoFe-based Spin Valves Prof. Chih-Huang Lai, Dr. Yu-Jen Wang (Department of Materials Science and Engineering, NTHU)
14:30-15:00	Graphical and Numerical Analysis on the Quarter and Non-quarter Wavelength Thickness 1-D Omni-reflector Prof. Shih Chao (Institute of Photonics Technologies, NTHU)	14:30-15:00	Magnetoimpedance in Magnetic Tunnel Junction Prof. Minn-Tsong Lin (Department of Physics, NTU)
15:00-15:30 Coffee Break			
Chairman : Prof. Chung-Yuan Mou (Department of Chemistry, NTU)		Chairman : Prof. Ching-Ray Chang (Chairperson, Department of Physics, NTU)	
15:30-16:00	Formation and Characteristic of GaN Quantum Dots by Self-assembled nanoholes	15:30-16:00	Effects of the Bulk Nitrogen in HfO_xN_y High-κ Gate Dielectric on Charge Trapping Properties of MOS

	Prof. Hao-chung Kuo (Institute of Electro-optical Engineering, NCTU)		Devices Dr. Chin-Lung Cheng (Department of Engineering and System Science, NTHU)
16:00-16:30	Fabrication and Emission Characteristic of InGaN/GaN Multiple Quantum Wells Nanorods Dr. Taohung Hsueh (Institute of Electro-Optical Engineering, NCTU)	16:00-16:30	A Simple Method to Fabricate Si-based Single Electron Devices Prof. Ya-Chang Chou (Department of Physics, NTHU)
16:30-17:00	Design of an Optical Bidirectional Module with Coupled Photonic Crystal Waveguides Dr. Forest S.-S. Chien (Center for Measurement Standards, Industrial Technology Research Institute)	16:30-17:00	Recent Advances in High κ Dielectrics for Si and GaAs Nano Electronics Prof. Ray-Nien Kwo (Department of Physics, NTHU)
17:00-17:30	Fabrication and Characterization of Photonic Crystals from Colloidal Processes Prof. Min-Hsiung Hon (Department of Materials Science and Engineering, NCKU)	17:00-17:30	Surface Functionalization of Carbon Nanotubes and Some Applications Prof. Kuo-chu Hwang (Department of Chemistry, NTHU)

Poster Session II – Nanobiotechnology	
SITE : Lobby, Physics Building, NTHU	
TIME : 13:30-17:00	
Paper List :	
1. Nanobiotechnology Probing molecular interactions by nano-scale microscopy---- A real-time view of microtubule's kinetics Chien-Hua Chen ¹ , Shu-Jung Yu ³ , Chi-Hung Lin ^{1, 2} and Din-Ping Tsai ³ ¹ <i>Institute of Biophotonics</i> , ² <i>Institute of Microbiology and Immunology of Nation Yang Ming University</i> ; ³ <i>Department of Physics, Nation Taiwan University</i>	
2. Single DNA Molecule Manipulation Using a Micro-Magnetic Platform Chi-Han Chiou, Gwo-Bin Lee <i>Department of Engineering Science, National Cheng Kung University</i>	
3. Measurement of Adhesion Force between <i>Klebsiella Pneumoniae</i> and Collagen by	

Photonic Force Microscope

Bo-Jui Chang¹, Ying-Jung Huang³, Jia-han Chan², Hwei-Ling Peng³, Sien Chi¹ and Long Hsu²

¹*Institute of Electro-Optical Engineering, National Chiao Tung University*

²*Department of Electrophysics, National Chiao Tung University*

³*Department of Biological Science and Technology, National Chiao Tung University*

4. Biofunctional Semiconductor Quantum Dots for Cell Biology Study

Yu-Ming Wang^{1*}, Hsiang-Chih Yang², Hsiang-Yuan Huang², Yuh-Jiuan Lin², and Wen-Tyng Li¹

¹*Biomaterial & Tissue Engineering Division, Biomedical Engineering Center, Industrial Technology Research Institute;* ²*Medical Engineering Technology Division, Biomedical Engineering Center, Industrial Technology Research Institute*

5. Monitor the Drug Entry in Live cells by Raman Spectroscopy

Yin-Jhen Chen , Chi-Hung Lin

Institute of Biophotonic Engineering, National Yang-Ming University

Institute of Microbiology and Immunology, National Yang-Ming University

6. Numerical Simulation for B-S Structural Transition of Nicked dsDNA Using Finite Element Method

Chang-An Yuan^{1*} and Kou-Ning Chiang²

Department of Power Mechanical Engineering, National Tsing Hua University

7. Trend of Development of Biomolecular Conformational Reaction Dynamics

Victor Wei-Keh Wu¹, and Chau-Chong Han²

¹*Department of Electronic Engineering, Lan-Yang Institute of Technology,*

²*Institute of Atomic and Molecular Science, Academia Sinica*

8. Development of a Plate-based Biochemical Assay by Using Quantum Dots as a Fluorescence Labeling Agent

Chin-Ping Huang¹, Hong-Wei Liu¹, Chao-Yun Tsao² , Li-Te Yin², Su-Feng Chiu², Teng-Ming Chen^{1*}

¹*Department of Applied Chemistry, National Chiao Tung University, and UST-CNST*

²*Center of Biomedical Engineering, Industrial Technology Research Institute*

9. Chitosan Nanoparticles as Novel Transdermal Carrier for DNA

Chien-Chih Yu, Cheng-Che Yang, Frank L. Chen

Biofiber & Biotechnology Application Department, Fiber Technology Division, Union Chemical Laboratories, Industrial technology research Institute

10. Seeding Growth Approach to the Synthesis of Highly Faceted Gold Nanoparticles with Well-Controlled Sizes

Chun-Hong Kuo and Michael H. Huang*

Department of Chemistry, National Tsing Hua University

11.

19:00-21:00	Banquet
	SITE : to be determined

July 2, 2004 (Friday)

Plenary Session III			
SITE : Basement 002, Physics Building, NTHU			
Chairman : Prof. Er-Terg Chiou (Dean, School of Medical Technology and Engineering, NYMU)			
08:20-09:00	A Study of the Growth Behavior and Properties of Nanoclusters, 2D Quantum Islands and Nanotips on Solid Surfaces Prof. Tien Tzou Tsong (Institute of Physics, Academia Scinica)		
09:00-09:40	The nanometer energy transducer of the biological cell: Catalytic wheel, ion pump, and the Brownian motor Prof. Tian Yow Tsong (Institute of Physics, Academia Scinica)		
09:40-10:20	Nanostructuring of Transparent Materials by Ultrashort Light Pulses Prof. Peter G. Kazansky (Optoelectronics Research Center, University of Southampton, UK)		
10:20-10:50 Coffee Break			
Chairman : Prof. Fon-Shan Yeh (Institute of Electronics Engineering, NTHU)			
10:50-11:30	Nano-fabrication with Focused Ion Beams: An Enabling Technique for Nanoscience Dr. Jacques Gierak (Laboratoire de Photonique et de Nanostuctures, UPR CNRS 20, 91460, Marcoussis, France)		
11:30-12:10	Coherent Manipulations of Excitonic Qubits in InGaAs Self-assembled Quantum Dots Prof. Chih-Kang Shih (Department of Physics, The University of Texas at Austin, USA)		
12:10-13:30 Lunch			
Session VII - Nanoelectronics SITE : Basement 002, Physics Building, NTHU		Session VIII - Nanobiotechnology SITE : Basement 019, Physics Building, NTHU	
Chairman : Prof. Chuen-horng Tsai (Department of Engineering and System Science, NTHU)		Chairman : Prof. Chi-Hung Lin (Institute of Microbiology and Immunology, NYMU)	
13:30-14:00	Synthesis of Aligned Carbon Nanotubes at Enhanced Growth Rate and Reduced Growth	13:30-14:00	Single Molecule Detection and Manipulation by

	Temperature Prof. Jyh-Ming Ting (Department of Materials Science and Engineering, NCKU)		Optical Techniques Prof. Ian. C. Hsu (Department of Atomic Science, NTHU)
14:00-14:30	Design Strategy on Electrostatic Discharge (ESD) Protection for Nano-Scale CMOS Integrated Circuits Prof. Ming-Dou Ker (Department of Electronics Engineering, NCTU)	14:00-14:30	Au Nanoparticle-enhanced Electrical Detection of DNA Hybridization on Silicon Chips Prof. Jang-Zern Tsai (Department of Electrical Engineering, NCU)
14:30-15:00	Playing with Arrays of Nanochannels on Anodic Aluminum Oxide Films Dr. Yuh-Lin Wang (Institute of Atomic and Molecular Sciences, Academia Sinica)	14:30-15:00	The Superstructure of Self-assembled Melanin Chung-Yang Lee (Institute of Nanotechnology, NCTU)
15:00-15:30 Coffee Break			
Session IX - Nanoelectronics SITE : Basement 002, Physics Building, NTHU		Session X – New Nano Tools and Nano Materials SITE : Basement 019, Physics Building, NTHU	
Chairman : Prof. Kow-Ming Chang (Department of Electronics Engineering, NCTU)		Chairman : Prof. Nyan-Hwa Tai (Chairman, Department of Materials Science and Engineering, NTHU)	
15:30-16:00	Growth of Vertically Aligned Carbon Nanotubes by ICP-CVD and in-situ Processes for Field Emission Enhancement Prof. Chuen-horng Tsai (Department of Engineering and System Science, NTHU)	15:30-16:00	Self-Assembled Nanostructures Mediated by Au Nanoparticles on Various Substrates Prof. Lih J. Chen (Dean, College of Engineering & Department of Materials Science and Engineering, NTHU)
16:00-16:30	Tailoring Oxide-Semiconductor Interfaces – an enabling sub-nano approach for new science and	16:00-16:30	The Applications Of Nanomaterials In TFT-LCD Fabrications Dr. Fan Luo (VP and Chief Technology Officer of AU Optronics Corporation)

	advanced devices Prof. Minghwei Hong (Department of Materials Science and Engineering, NTHU)		
16:30-17:00	to be determined Prof. Chung-Yu Wu (Dean, College of Electrical Engineering and Computer Science & Department of Electronics Engineering, NCTU)	16:30-17:00	Instrumentation for Nanotechnology - Reemergence of Atom Probes Dr. Thomas F. Kelly (Founder, Chairman and CTO, Imago Scientific Instruments)
17:00-17:30	In-depth Studies on Transport characteristics of Si Nanodots Prof. Huey-liang Hwang (Director, Nano Technology and MEMS Center & Institute of Electronics Engineering, NTHU)	17:00-17:30	Effect of ECR Plasma Exposure on Optical Constants of $\text{Se}_{80}\text{Te}_{20-x}\text{Pb}_x$ Thin Films Prof. M. Husain (Department of Physics, Jamia Millia Islamia) (Central University)(INDIA)

Poster Session III – Nanophotonics & Nanoelectronics

SITE : Lobby, Physics Building, NTHU

TIME : 13:30-17:00

Paper List :

1. Observation of Higher Order Nonlinearities in Photonic Glasses Doped with Cu,Ag and Au Nanocrystals
T. C. Wen*, L. C. Hwang, S. C. Lee, C. C. Chang
Department of Medicinal and Applied Chemistry, Kaohsiung Medical University, Kaohsiung, Taiwan, ROC
2. Fabrication and Characterization of Photonic Crystals from Colloidal Processes
Yi-Wen Chung^{1,*}, Ing-Chi Leu², Jian-Hong Lee¹ and Min-Hsiung Hon¹
¹*Department of Materials Science and Engineering, National Cheng Kung University,*
²*Department of Electronic Engineering, Kun Shan University of Technology*
3. InP-based Photonic Crystal Directional Couplers
Wen-Kai Wang^a, Chin-Yu Chen^a, S.C. Yang^a, Chii-Chang Chen^b, Y.J. Chan ^a
^a*Department of Electrical Engineering, National Central University, Jung-Li, Taiwan*
^b*Institute of Optical Sciences, National Central University, Jung-Li, Taiwan*
4. Synthesis and Characterization of Phosphorescent Bis-cyclometalated Ir(III) Complexes
Yueh-Ju, Wang and Chung K. Lai*
Department of Chemistry, National Central University

5.	Enhanced Photoluminescence Observed in Core-shell composites of Au/CdSe and Au/CdSe/ZnS Nanocrystals Hong-Wei Liu, Chin-Ping Huang and Teng-Ming Chen <i>Department of Applied Chemistry, National Chiao Tung University and UST-CNST</i>
6.	Formation of TiN Nanowires and Nanoparticles within Mesoporous Silica SBA-15 Han-Sheng Hsueh, Cheng-Tzu Yang, Jeffrey I. Zink, Michael H. Huang Department of Chemistry, National Tsing Hua University, Hsinchu 30043, Taiwan, and Department of Chemistry and Biochemistry, University of California, Los Angeles, California 90095, USA
7.	
8.	

July 3, 2004 (Saturday)

Plenary Session IV	
SITE : Basement 002, Physics Building, NTHU	
Chairman : Prof. Huey-liang Hwang (Director, Nano Technology and MEMS Center & Institute of Electronics Engineering, NTHU)	
09:00-09:40	Toward Heterogeneous Integration of Nanosystems Prof. Kang L. Wang (Director, MARCO Focus Center on Functional Engineered Nano Architectonics, UCLA)
09:40-10:20	Bio-Nano-Informatics (BNI) Fusion Prof. Chih-Ming Ho (Institute for Cell Mimetic Space Exploration, School of Engineering and Applied Science, UCLA, USA)
10:20-10:40	Coffee Break
Chairman : Prof. Lih J. Chen (Dean, College of Engineering & Department of Materials Science and Engineering, NTHU)	
10:40-11:20	Temperature Related Problems in Nanoscale Systems Prof. Koungh An Chao (Department of Physics, Lund University, Sweden)
11:20-12:00	Ferromagnet/Semiconductor Nanostructures for Spintronics and New Magnetologic Concepts Prof. Klaus H. Ploog (Director of Paul-Drude-Institut für Festkörperelektronik, Germany)
12:00-12:10	Closing

12:10-13:30	Lunch
-------------	-------

UST CNST Steering Committee Meeting 2004
TIME : 14:00-16:00 SITE : Room 207, Physics Building, NTHU Name List : to be determined