

# Agenda

<b>Sunday, 10 February, 2008</b>	
17:40-18:00	Registration (Convention Center)
18:00-20:00	Reception
<b>Monday, 11 February, 2008</b>	
<b>08:00-08:20</b>	Registration / Poster set-up (Convention Center)
<b>08:20-08:40</b>	<b>Introductory remarks</b> Prof. Maw-Kuen Wu, Academia Sinica Dr. Harold Weinstock, AFRL/AFOSR
<b>08:40-10:10</b>	<b>Session A : Semiconducting nanocolumns and nanotips</b>
<b>Chair :</b>	Dr. Jim C. I. Chang, AOARD
08:40-09:10	<u>Prof. Chih-Chung Yang</u> , National Taiwan University
<b>A1</b>	Topic : Coalescence Overgrowth with Metalorganic Chemical Vapor Deposition on Molecular Beam Epitaxy Grown GaN Nano-Columns
09:10-09:40	<u>Dr. Li-Chyong Chen</u> , National Taiwan University
<b>A2</b>	Topic : Si Nanotips Array: from Biomimetic Antireflection, Molecule/Bio-Sensing to Controlled Cell Culture
09:40-10:10	<u>Dr. Kent L Averett</u> , Air Force Research Laboratory
<b>A3</b>	Topic : Maskless Epitaxial Overgrowth of Gan Nanocolumns
<b>10:10-10:30</b>	Coffee/Tea Break
<b>10:30-12:30</b>	<b>Session B : Opto-electronic devices</b>
<b>Chair :</b>	Dr. Chia-Seng (Jason) Chang, Academia Sinica
10:30-11:00	<u>Prof. Hung-Hsiang Cheng</u> , National Taiwan University
<b>B1</b>	Topic : Tunable, Room Temperature Light-emitting Diodes based on Strained Si/SiGe Heterostructures
11:00-11:30	<u>Dr. Gail Brown</u> , Air Force Research Laboratory
<b>B2</b>	Topic : Short Period InAs/GaSb Superlattices for Mid-IR Detection
11:30-12:00	<u>Prof. Chee-Wee Liu</u> , National Taiwan University
<b>B3</b>	Topic : Toward Group IV Laser
12:00-12:30	<u>Dr. Danhong Huang</u> , Air Force Research Laboratory
<b>B4</b>	Topic : Bloch Oscillations and Steady-State Current in a Semiconductor Quantum-dot Superlattice under a High Electric Field
<b>12:30</b>	Group photo (Convention Center)

<b>12:40-14:00</b>	Lunch (Restaurant)
<b>14:00-15:30</b>	<b>Session C : Photovoltaic applications</b>
<b>Chair :</b>	Dr. Thomas E. Erstfeld, AOARD
14:00-14:30 <b>C1</b>	<u>Prof. Wei-Fang Su</u> , National Taiwan University Topic : Highly Ordered Nano Structure Hybrid Material for High Efficient Photovoltaic Device
14:30-15:00 <b>C2</b>	<u>Mr. John M. Salinas</u> , Air Force Research Laboratory/RVSV Topic : Quantum Dot-enhanced Solar Cells
15:00-15:30 <b>C3</b>	<u>Ms. Miriam Keith</u> , Air Force Research Laboratory Topic : Nanoscience and Nanotechnology Research Needs for Deployed Base Energy (PA# 08-007)
<b>15:30-18:00</b>	<b>Poster session and free time</b> (1.5-hours short tour at Hui-Sun Forest Station)
<b>18:00-19:00</b>	Dinner (Restaurant)
<b>19:00-21:40</b>	<b>Session D : Nanostructures and biological systems</b>
<b>Chair :</b>	Dr. Kuei-Hsien Chen, Academia Sinica
19:00-19:30 <b>D1</b>	<u>Dr. Hugh De Long</u> , Air Force Office of Scientific Research Topic : Nanotechnology and Biomimetics, Biomaterials, & Biointerfacial Sciences
19:30-20:00 <b>D2</b>	<u>Prof. Hsing-Wen Sung</u> , National Tsing Hua University Topic : Novel Nanoparticles Shelled with Chitosan for Oral Delivery of Protein Drugs
20:00-20:30 <b>D3</b>	<u>Dr. Saber Hussain</u> , Air Force Research Laboratory/RHPB Topic : Toxicity Evaluation of Engineered Nanomaterials
<b>20:30-20:40</b>	Coffee/Tea Break
20:40-21:10 <b>D4</b>	<u>Prof. T. Michael Tseng</u> , University of Louisville Topic : Reticuloendothelial System Response to Systemically-Administered Ceria Nanoparticles
21:10-21:40 <b>D5</b>	<u>Prof. Long Hsu</u> , National Chiao Tung University Topic : Using Nanotechniques to Explore Bacteria-Host Cell Interaction
<b>Tuesday, 12 February, 2008</b>	
<b>08:00-11:50</b>	<b>Session E : Novel Nanostructured Devices</b>
<b>Chair :</b>	Dr. Joseph Tringe, AFOSR
08:00-08:30 <b>E1</b>	<u>Dr. Charles Lee</u> , Air Force Office of Scientific Research Topic : Enhancing Properties of Organic Materials with

	Nanostructures
08:30-09:00 <b>E2</b>	<u>Prof. Yeau-Ren Jeng</u> , National Chung Cheng University Topic : Exploring Mechanical Property of Nano-Structures Using Nanomechanics
09:00-09:30 <b>E3</b>	<u>Dr. John F. Maguire</u> , Air Force Research Laboratory Topic : Cyber-enabled Discovery and Innovation in Nanomaterials Design and Processing
09:30-10:00 <b>E4</b>	<u>Prof. Ming-Hwei Hong</u> , National Tsing Hua University Topic : Research on III-V and Ge Nano-electronics for Science and Technology beyond Si CMOS
<b>10:00-10:20</b>	Coffee/Tea Break
10:20-10:50 <b>E5</b>	<u>Dr. Yu-Hui Chiu</u> , Air Force Research Lab/RVBXT Topic : Nano-electrojet and Neutral Particle Sensor for Space Weather Sensing
10:50-11:20 <b>E6</b>	<u>Dr. Diggs Darnell</u> , Air Force Research Laboratory Topic : Materials Enable Terahertz Systems and Concepts
11:20-11:50 <b>E7</b>	<u>Prof. Maw-Kuen Wu</u> , Academia Sinica Topic : Electrical and Thermal Transport in Single Nanowire
<b>12:00-13:30</b>	Lunch (Restaurant) / All posters taken down before 13:30
<b>13:30-15:00</b>	<b>Session F : Carbon nanotubes</b>
<b>Chair :</b>	Dr. Harold Weinstock, AFOSR
13:30-14:00 <b>F1</b>	<u>Prof. Chia-Seng Chang</u> , Academia Sinica Topic : <i>In-situ</i> Growth and Manipulation of Multiwalled Carbon Nanotubes
14:00-14:30 <b>F2</b>	<u>Dr. Paul N. Barnes</u> , Air Force Research Laboratory Topic : Nanoscience for Power in Magnetic Materials, Carbon Nanotubes, and Superconductivity
14:30-15:00 <b>F3</b>	<u>Prof. Arnold Chang-Mou Yang</u> , National Tsing Hua University Topic : Carbon Nanotubes Interacting with Nano-plastic Flows of Glassy Polymers and their Photovoltaic Behavior in Nanocomposites
<b>15:00-15:20</b>	<b>Concluding remarks</b> Prof. Maw-Kuen Wu, Academia Sinica Dr. Patrick Gerard Carrick, AFOSR/NE
15:40	Shuttle buses leave for high speed rail (HSR) station