

2014 International Symposium on Nano Science & Technology (ISNST)

2014 ISNST Program

October 17 (Fri)	
8:00 – 9:00	Registration & Coffee time (place: E13 lobby)
9:00 – 9:30	<p style="text-align: center;">Opening Ceremony (place: E1301)</p> <p>Opening remark: Professor Chein Tai, Chairman of Congress, The President of Southern Taiwan University of Science and Technology</p>
9:30 – 10:10	<p style="text-align: center;">Keynote Speaker (place: E1301)</p> <p>Professor Donald A. Tomalia / CEO/Founder of NanoSynthons, USA Title: A Systematic Framework for Unifying and Defining Nanoscience Based on Hard/Soft Quantized Building Blocks--“<i>Superatoms</i>”</p>
	<p>Chairman: Chair Professor Jyh-Ping Hsu, Department of Chemical Engineering, National Taiwan University, Taipei City, Taiwan</p>
10:10~10:30	Coffee Break
10:30 – 11:00	<p style="text-align: center;">Invited Speaker 1 (place: E1301)</p> <p>Chair Professor Chi-Chang Hu / Department of Chemical Engineering, National Tsing Hua University, Taiwan, ROC</p>
	<p>Title: Synthesis of Hierarchically Porous Carbons and Composites for Supercapacitors</p> <p>Chairman: Professor Kei Ameyama/Department of Mechanical Engineering, College of Science and Engineering, Ristumeikan University</p>
11:00 – 11:30	<p style="text-align: center;">Invited Speaker 2 (place: E1301)</p> <p>Professor Kei Ameyama/Department of Mechanical Engineering, College of Science and Engineering, Ristumeikan University</p>
	<p>Title: Nano-Meso Harmonic Structure Design for High Performance Pure Ti and Ti-6Al-4V Alloy</p> <p>Chairman: Chair Professor Chi-Chang Hu / Department of Chemical Engineering, National Tsing Hua University, Taiwan, ROC</p>
11:30 – 12:00	<p style="text-align: center;">Invited Speaker 3 (place: E1301)</p> <p>Professor Lu-Ning Wang/School of Materials Science and Engineering, University of Science and Technology Beijing</p>
	<p>Title: Electrochemical Anodization: Bridging the Gap between Corrosion and Nanotechnology- Self-Ordering Transition Metal Oxides Nanotubular Arrays for Biomedical Applications</p> <p>Chairman: Professor Mitsunobu SATO / Associate to the President (Professor A. Mizuno) Kogakuin University, Japan</p>
12:00 – 13:30	Lunch Break & Poster Exhibition
13:30 – 14:00	<p style="text-align: center;">Invited Speaker 4 (place: E1301)</p> <p>Professor Mitsunobu SATO/Associate to the President (Professor A. Mizuno) Kogakuin University, Japan</p>

	<p>Title: Photocatalytic Activity of Vis-Responsive Ag-Nanoparticles/TiO₂ Composite Thin Films Fabricated by Molecular Precursor Method (MPM)</p> <p>Chairman: Professor Lu-Ning Wang/School of Materials Science and Engineering, University of Science and Technology Beijing</p>
14:00 – 14:30	<p style="text-align: center;">Invited Speaker 5 (place: E1301)</p> <p>Professor Swapan K. Saha /Department of Chemistry, University of North Bengal, India.</p> <p>Title: Synergistic Effect of π-conjugated Aromatic Systems on the Aggregation of Surfactants and Surface Active Ionic Liquids: Demonstration of Complex Fluidity Realized via Modified H-bonding and Cation-π Interactions</p> <p>Chair Professor Jyh-Ping Hsu, Department of Chemical Engineering, National Taiwan University, Taipei City, Taiwan</p>
14:30 – 15:00	<p style="text-align: center;">Invited Speaker 6 (place: E1301)</p> <p>Professor Shuichi TORII/Department of Mechanical System Engineering, Kumamoto University.</p> <p>Title: Warming Suppression and Advanced Energy-Production Using Biomass</p> <p>Chairman: Professor Cheng-Hsin Chuang/ Department of Mechanical Engineering, Southern Taiwan University of Science and Technology</p>
15:00 – 15:20	Coffee Break
15:20 – 15:50	<p style="text-align: center;">Invited Speaker 7 (place: E1301)</p> <p>Professor Cheng-Hsin Chuang/ Department of Mechanical Engineering, Southern Taiwan University of Science and Technology, Tainan City, Taiwan, ROC.</p> <p>Title: Nanoparticle-based Biosensor for Impedance Sensing of Bladder Cancer Cell Lysate</p> <p>Chairman: Professor Shuichi TORII/Department of Mechanical System Engineering, Kumamoto University</p>
15:50 – 16:40	<p style="text-align: center;">International Industry-Academic Forum:</p> <p style="text-align: center;">Topic 1: Applications of Nanomaterials and Nanotechnology in the Present and Future</p> <p style="text-align: center;">Topic 2: Strategies and Practices to Promote Industry-Academic Cooperation</p> <p style="text-align: center;">Topic 3: Promoting Industry-Academic Cooperation for Innovation</p> <p style="text-align: center;">Speakers: Professor Donald A. Tomalia (CEO/Founder of NanoSynthons, USA), Dr. Chien Yung Ma (Executive Director of Solar Applied Materials Technology Corporation), Professor Kei Ameyama (Department of Mechanical Engineering, College of Science and Engineering, Ristumeikan University), Chair Professor Chi-Chang Hu (Department of Chemical Engineering, National Tsing Hua University), Dr. Yeong-Tsyh Huang (Director of the Office of Industry-Academia Cooperation, STUST)</p>

	Chairman: Professor Chien-Hsiang Chang /Department of Chemical Engineering, National Cheng Kung University, Tainan City, Taiwan, ROC
16:50 – 17:50	Oral Presentation (Place: E1304 & E1305) 12 minutes per one speaker
18:30	Banquet (place: Evergreen Plaza Hotel Tainan 2F, 台糖長榮酒店 2F)
October 18 (Sat)	
8:00 – 9:30	Registration & Coffee time (place: E13 lobby)
09:30 – 10:00	Invited Speaker 8 (place: E1301) Professor Chang-Ning Huang/Department of Chemical and Materials Engineering, Southern Taiwan University of Science and Technology, Tainan City, Taiwan, ROC. Title: Structural Properties of Planar Defects in GaN Layers Grown on Ordered Arrays of Nanorods by Metal–Organic Vapour Phase Epitaxy
	Chairman: Professor Chien-Hsiang Chang /Department of Chemical Engineering, National Cheng Kung University, Tainan City, Taiwan, ROC
10:00 – 10:30	Invited Speaker 9 (place: E1301) Professor Anirban Misra/Department of Chemistry, University of North Bengal, India. Title: Quantum Magnets: Design, Assessment, Application
	Chairman: Professor Hong-Ru Lin /Department of Chemical and Materials Engineering, Southern Taiwan University of Science and Technology, Tainan City, Taiwan, ROC.
10:30 – 10:50	Coffee Break
10:50 – 11:20	Invited Speaker 10 (place: E1301) Professor Chi Wang /Department of Chemical Engineering, National Cheng-Kung University, Tainan City, Taiwan, ROC. Title: Electrospinning Fundamentals and Nanofiber Applications
	Chairman: Professor Ching-Feng Mao /Department of Chemical and Materials Engineering, Southern Taiwan University of Science and Technology, Tainan City, Taiwan, ROC.
11:20 – 12:00	Award & Closing Remark (place: E1301) Professor Deng-Maw Lu, The Vice President of Academic Affairs of Southern Taiwan University of Science and Technology

Oral Section A (Conference Room:E1304)
Chairman: 1. Professor Swapan K. Saha /Department of Chemistry, University of North Bengal, India
2. Professor Chang-Ning Huang /Department of Chemical and Materials Engineering, Southern Taiwan University of Science and Technology, Taiwan

ID/Time	Authors	Title
OA1/ 16:50-17:02	Chun-Yuan Su and Jyh-Ping Hsu	Diffusiophoresis of a Charged-Regulated Polyelectrolyte in a Necked Nanopore
OA2/ 17:02-17:14	H. Keno, R. Uchida, T. Fukuzawa, A. Mori and K. Hokamoto	Characterization of Interfacial Properties on the Explosively Welded Niobium Foil on Stainless Steel Base Plate Using Underwater Shockwave
OA3/ 17:14-17:26	You-Cheng Jhang and Chih-Cheng Kao	Electroluminescence of $\text{Si}_x\text{C}_y\text{O}_{1-x-y}$ MOSLED
OA4/ 17:26-17:38	Chien-Wen Liu, Hui-Ting Yan, An-Tsung Kuo, Ching-Yun Wu, Ting-Pin Chou, and Chien-Hsiang Chang	Characterization of Vesicles and Langmuir Monolayers Composed of Ion Pair Amphiphile with Ionic Lipids
OA5/ 17:38-17:50	C.-H. Chuang, C.-H. Chen, T.-F. Wu, Vo Van Nhan, L.-Y. Chang, K.-C. Chang	Rapid Detection of Cell Lysate Using Impedance Measurement of Immunoreaction Coupled with Conductive Carbon Black Nanoprobe

Oral Section B (Conference Room:E1305)

Chairman: 1. Professor Anirban Misra/Department of Chemistry, University of North
Bengal, India.

2. Professor Ching-Ming Hsu/Department of Electro-Optical Engineering, Southern Taiwan
University of Science and Technology, Taiwan

ID/Time	Authors	Title
OB1/ 16:50-17:02	Wei-Fen Chang, Yu-Ting Wang, Chien-Hsiang Chang	Physical Stability and Vitamin E-Acetate Encapsulation Efficiency of Catanionic Vesicles Fabricated from Ion Pair Amphiphile and Dihexadecyl Phosphate with Cholesterol
OB2/ 17:02-17:14	Keisuke Goto and Shuichi Torii	Investigation of The Stability of Water in Diesel Emulsion Fuel Generated by Underwater Explosion
OB3/ 17:14-17:26	Ruei-Yang Syu, Yih-Chien Chen, Yen-Nien Wang, and Min-Zhe Weng	Effect of Sintering Temperature on Microwave Dielectric Properties of Li_2SnO_3 Ceramics
OB4/ 17:26-17:38	Fukuoka Yukiko, and Torii Shuichi	Study of the Heat Transfer Capability Uses Al_2O_3 Nanofluid as the Working Fluid of Heat Exchanger
OB5/ 17:38-17:50	Chang-Yu Shih, Chih-Cheng Kao	Growth of Nano-Crystals of Er Doped $\text{Si}_x\text{Ge}_y\text{O}_{1-x-y}$ Film
OB6/ 17:50-18:02	Wei-Chin Wang, and Chih-Cheng Kao	Electroluminescence of $\text{Si}_x\text{Ge}_y\text{O}_{1-x-y}$ MOSLED

