**2014 International Symposium on Nano Science & Technology (ISNST)**

**2014 ISNST Program**

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| **October 17 (Fri)** | |
| 8:00－9:00 | Registration & Coffee time **(place: E13 lobby)** |
| 9:00－9:30 | **Opening Ceremony (place: E1301)**  Opening remark: **Professor** **Chein Tai**, Chairman of Congress, The President of Southern Taiwan University of Science and Technology |
| 9:30－10:10 | **Keynote Speaker (place: E1301)**  **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*--“Superatoms”* |
| **Chairman:** **Chair Professor** Jyh-Ping Hsu, Department of Chemical Engineering, National Taiwan University, Taipei City, Taiwan |
| 10:10~10:30 | **Coffee Break** |
| 10:30－11:00 | **Invited Speaker 1 (place: E1301)**  **Chair Professor Chi-Chang Hu /** Department of Chemical Engineering, National Tsing Hua University, Taiwan, ROC  **Title:** Synthesis of Hierarchically Porous Carbons and Composites for Supercapacitors |
| **Chairman: Professor Kei Ameyama**/Department of Mechanical Engineering, College of Science and Engineering, Ritsumeikan University |
| 11:00－11:30 | **Invited Speaker 2 (place: E1301)**  **Professor Kei Ameyama**/Department of Mechanical Engineering, College of Science and Engineering, Ritsumeikan University  Title: Nano-Meso Harmonic Structure Design for High Performance Pure Ti and Ti-6Al-4V Alloy |
| **Chairman: Chair Professor Chi-Chang Hu /** Department of Chemical Engineering, National Tsing Hua University, Taiwan, ROC |
| 11:30－12:00 | **Invited Speaker 3 (place: E1301)**  **Professor** **Lu-Ning Wang/**School of Materials Science and Engineering, University of Science and Technology Beijing  Title: Electrochemical Anodization: Bridging the Gap between Corrosion and Nanotechnology- Self-Ordering Transition Metal Oxides Nanotubular Arrays for Biomedical Applications |
| **Chairman: Professor Mitsunobu SATO /** Associate to the President (Professor A. Mizuno) Kogakuin University, Japan |
| 12:00－13:30 | **Lunch Break & Poster Exhibition** |
| 13:30－14:00 | **Invited Speaker 4** **(place: E1301)**  **Professor Mitsunobu SATO/**Associate to the President (Professor A. Mizuno) Kogakuin University, Japan  Title: Photocatalytic Activity of Vis-Responsive Ag-Nanoparticles/TiO2 Composite Thin Films Fabricated by Molecular Precursor Method (MPM) |
| **Chairman: Professor** **Lu-Ning Wang/**School of Materials Science and Engineering, University of Science and Technology Beijing |
| 14:00－14:30 | **Invited Speaker 5** **(place: E1301)**  **Professor Swapan K. Saha** /Department of Chemistry, University of North Bengal, India.  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 Iinteractions |
| Chair Professor Jyh-Ping Hsu, Department of Chemical Engineering, National Taiwan University, Taipei City, Taiwan |
| 14:30－15:00 | **Invited Speaker 6 (place: E1301)**  **Professor** **Shuichi TORII**/Department of Mechanical System Engineering, Kumamoto University.  Title: Warming Suppression and Advanced Energy-Production Using Biomass |
| **Chairman: Professor Cheng-Hsin Chuang**/ Department of Mechanical Engineering, Southern Taiwan University of Science and Technology |
| 15:00－15:20 | **Coffee Break** |
| 15:20－15:50 | **Invited Speaker 7 (place: E1301)**  **Professor Cheng-Hsin Chuang**/ Department of Mechanical Engineering, Southern Taiwan University of Science and Technology, Tainan City, Taiwan, ROC.  Title: Nanoparticle-based Biosensor for Impedance Sensing of Bladder Cancer Cell Lysate |
| **Chairman: Professor** **Shuichi TORII**/Department of Mechanical System Engineering, Kumamoto University |
| 15:50－16:40 | **International Industry-Academic Forum:**  **Topic 1: Applications of Nanomaterials and Nanotechnology in the Present and Future**  **Topic 2: Strategies and Practices to Promote Industry- Academic Cooperation**  **Topic 3: Promoting Industry-Academic Cooperation for Innovation**  **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, Ritsumeikan University), **Chair Professor Chi-Chang Hu** (Department of Chemical Engineering, National Tsing Hua University**), Dr. Yeong-Tsyr Huang** (Director of the Office of Industry-Academia Cooperation, STUST) |
| **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 |

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| **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 SixCyO1-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 |

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| **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 Stabilityof Water in Diesel Emulsion Fuel Ganerated 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 Li2SnO3 Ceramics |
| OB4/  17:26-17:38 | Fukuoka Yukiko, and Torii Shuichi | Study of the Heat Transfer Capability Uses Al2O3 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 SixGeyO1-x-y Film |
| OB6/  17:50-18:02 | Wei-Chin Wang, and Chih-Cheng Kao | Electroluminescence of SixGeyO1-x-y MOSLED |