

October 30, 2011, Sunday

15:00-19:00 Registration

19:00-21:00 Reception BBQ

October 31, 2011, Monday

07:30-17:00 Registration

08:10-21:00 Conference Sessions

Mon AM (Oct. 31)	LED, Solar & Electrical-Related <i>Session Chairs: Prof. Jow-Lay Huang and Prof. Alexander Michaelis</i>		
8:10-8:20	Prof. Wei-Hsing Tuan	Opening Remark	
8:20-8:50	Dr. Mrityunjay Singh <i>(Keynote)</i>	USA	Carbon-based Materials for Energy and Thermal Management Applications
8:50-9:10	Dr. Tatsuki Ohji <i>(Invited)</i>	Japan	Energy Efficient Manufacturing Process of Silicon Nitride Ceramics and Components
9:10-9:30	Prof. Pavol Šajgalik <i>(invited)</i>	Slovakia	Silicon Nitride/Oxynitride-based Phosphors – Synthesis and Characterization
9:30-9:50	Prof. Zoltán Lenčéš <i>(invited)</i>	Slovakia	Eu-doped MgSiN ₂ and LaSi ₃ N ₅ -based Phosphors – Experimental and DFT Studies
9:50-10:30	Group Photos / Session Break		
10:30-10:50	Prof. Kunihito Koumoto <i>(invited)</i>	Japan	Novel Materials for Solar Thermoelectric Power Generation
10:50-11:10	Dr. Daniel Q. Tan <i>(invited)</i>	USA	Overview of High Energy Density Capacitors and Ultracapacitors
11:10-11:30	Prof. Ying-Chieh Lee <i>(invited)</i>	Taiwan	Effect of TiO ₂ -doped Ni Electrodes on the Microstructural and Dielectric Properties of (Ba _{0.96} Ca _{0.04})(Ti _{0.85} Zr _{0.15})O ₃ MLCC
11:30-11:50	Dr. Wei-Kong Pang <i>(invited)</i>	Taiwan	Effects of ZnO Coating on Electrochemical Performance of xLi ₂ MnO ₃ ·(1-x)LiMn _{1-y} M _y O ₂
11:50-12:10	Prof. Jian-Zhang Chen <i>(invited)</i>	Taiwan	Microcavity-embedded Nanoporous TiO ₂ Photoanodes for Dye Sensitized Solar Cells
12:10-13:20	Lunch Break		
Mon PM (Oct. 31)	Nuclear & Structural-Related <i>Session Chairs: Dr. H. T. Lin and Prof. Pavol Šajgalik</i>		
13:20-13:50	Prof. Alexander Michaelis <i>(Keynote)</i>	Germany	Ceramics for Energy and Environmental Technology with Focus on Fuel Cells, Photovoltaics, Energy Storage Systems and Membranes

13:50-14:10	Prof. Ji-Jung Kai <i>(invited)</i>	Taiwan	Application of SiC _f /SiC Composites and Graphite-based Materials in Nuclear Energy
14:10-14:30	Prof. Tatsuya Hinoki <i>(invited)</i>	Japan	Pseudo Ductile Porous Silicon Carbide Ceramics
14:30-14:50	Dr. Hai-Doo Kim <i>(invited)</i>	Korea	Microstructure Control of High-Performance SRBSN (Sintered Reaction Bonded Silicon Nitride)
14:50-15:10	Session Break		
	Solid Oxide Fuel Cells <i>Session Chairs: Dr. Tatsuki Ohji and Prof. Kuan-Zong Fung</i>		
15:10-15:30	Prof. Wen-Cheng J. Wei <i>(Invited)</i>	Taiwan	Long-Term Electric Conductivity of Co-doped Bi ₂ O ₃ Solid Electrolytes for SOFC
15:30-15:50	Dr. Hirofumi Sumi <i>(invited)</i>	Japan	Fuel Flexibility for Anode-Supported Microtubular Solid Oxide Fuel Cells
15:50-16:10	Mr. Ling Zhao	China	Bi-Layer Electrolyte YSZ-SDC for Microtubular Solid Oxide Fuel Cells
16:10-16:30	Ms. Beibei He	China	Ni-LnO _x (Ln = Dy, Ho, Er, Yb and Tb) Cermet Anodes for Intermediate-Temperature Solid Oxide Fuel Cells
16:30-16:50	Prof. Shao-Ju Shih <i>(invited)</i>	Taiwan	Manipulation of Nanoscale Dopant Distribution in Particles for Solid Oxide Fuel Cell Electrolytes
16:50-17:10	Ms. Beibei Liu	China	Synthesis and Electrical Conductivity of Various Melilite-type Electrolytes Ln _{1+x} Sr _{1-x} Ga ₃ O _{7+x/2}
17:10-17:30	Prof. Yuh-Ruey Wang <i>(invited)</i>	Taiwan	Effects of (LaSr)(CoFeCu)O _{3.8} Cathodes on the Characteristics of Intermediate Temperature Solid Oxide Fuel Cells
19:00-21:00	Poster Session (Foods and Drinks) <i>Session Chair: Prof. Wei-Hsing Tuan</i>		

November 1, 2011, Tuesday

07:30-17:00

Registration

08:20-12:30

Conference sessions

Tue AM (Nov. 1)	Processing & Energy Applications 1 <i>Session Chairs: Dr. Jay Singh and Dr. Hai-Doo Kim</i>		
8:20-8:50	Dr. James C. Sung <i>(Keynote)</i>	Taiwan	The Next Generation Products of LED, Solar Cell, DLC and Graphene
8:50-9:10	Prof. Takashi Goto <i>(invited)</i>	Japan	High-Speed Deposition of Highly Oriented CeO ₂ and YBCO Films by Laser Chemical Vapor Deposition for Superconducting Tape
9:10-9:30	Dr. Dušan Galusek <i>(invited)</i>	Slovakia	Aluminate Glass Phosphors for Energy Saving Lighting Applications
9:30-9:50	Prof. Makio Naito <i>(Invited)</i>	Japan	Smart Powder Processing for Sustainable Applications
9:50-10:10	Prof. Hisayuki Suematsu <i>(invited)</i>	Japan	Preparation of Metal Nanoparticles and Nanoplates by Pulsed Wire Discharge
10:10-10:30	Session Break		
10:30-10:50	Prof. Hong-Ming Lin <i>(invited)</i>	Taiwan	Synthesis and Characterization of AuPd/CeO ₂ /MWCNTs Hybrid Materials
10:50-11:10	Dr. Kuang-Hsi Wu <i>(invited)</i>	USA	Synthesis and Properties of Spark Plasma Sintered (SPS) Silicon Carbide–Carbon Nanotube (CNT) Composite
11:10-11:30	Prof. Walter Krenkel <i>(invited)</i>	Germany	Hybrid Ceramic-Metal Tubes for Steam Power Plants
11:30-11:50	Prof. Hong-Wen Wang <i>(invited)</i>	Taiwan	Factors Affecting the Hydrogen Generation from Aluminum and Water
11:50-12:10	Dr. Soshu Kirihara <i>(invited)</i>	Japan	Energy Localizations of Terahertz Waves in Photonic Crystals with Cavity Cells
12:10-12:30	Prof. Kuan-Zong Fung <i>(invited)</i>	Taiwan	Effect of Aliovalent Dopant on Stability Against Metallic Li and Ionic Conduction of NASICON- and Perovskite-type Li Solid Electrolytes
12:30-13:40	Lunch Break		
13:40-18:00	Tour of Kenting National Park		
19:00-21:00	Conference Banquet / Poster Awards Presentation		

November 2, 2011, Wednesday

07:30-10:00

Registration

08:20-12:20

Conference sessions

Wed AM (Nov. 2)	Processing & Energy Applications 2 <i>Session Chairs: Prof. Walter Krenkel and Prof. Wei-Hsing Tuan</i>		
8:20-8:50	Dr. Dileep Singh <i>(Keynote)</i>	USA	Development of Heat Transfer Fluids for Energy Applications
8:50-9:10	Dr. Jack C. Chen <i>(invited)</i>	USA	Advances in Ceramic Membranes for Gas Separation and Clean Energy Applications
9:10-9:30	Prof. Lian Gao <i>(invited)</i>	China	Shape-Controlled Synthesis of Inorganic Nanostructures
9:30-9:50	Prof. Jow-Lay Huang <i>(invited)</i>	Taiwan	Growth of Highly Oriented C-axis (Sc, Al)N Film on Diamond for High Frequency Surface Acoustic Wave Devices
9:50-10:10	Dr. Pramoda K. Nayak <i>(invited)</i>	Taiwan	Liquid Phase Epitaxial Growth of Single Crystal SiC using Sm-based Solvent
10:10-10:30	Session Break		
10:30-10:50	Dr. Zheng-Ming Sun <i>(invited)</i>	Japan	Oxidation Behavior of Ti_3AlC_2 and $Ti_3AlC_2-Ti_3SiC_2$ Solid Solutions
10:50-11:10	Dr. Shao-Ming Dong <i>(invited)</i>	China	Morphology of CNTs Grown on Fiber Surface and the Multifunctional Enhancement to CMCs
11:10-11:30	Dr. Guo-Jun Zhang <i>(invited)</i>	China	Zirconium-based Non-Oxide Ceramics: Preparation, Microstructure Tailoring and Properties
11:30-11:50	Mr. Cheng-Ying J. Lu	Taiwan	Epitaxial Growth of Nonpolar ZnO on (100) MgO by Molecular Beam Epitaxy
11:50-12:10	Mr. Teng-Hsing Huang	Taiwan	Characterization of Nonpolar ZnO Epilayer Grown on $\gamma-LiAlO_2$ by Chemical Vapor Deposition
12:10-12:20	Prof. Wei-Hsing Tuan	Final Remark	
12:20-13:30	Lunch Break / Conference Adjourn		