

Nov. 20, 2011, Sunday

- 09:00 - 17:00 Short Course
- 16:00 - 20:30 Registration
- 18:30 - 20:30 Reception – *Banquet Hall*

Nov. 21, 2011, Monday

- 07:30 - 16:30 Registration
- 08:15 - 10:00 Opening Remark / Keynote Speech
- 10:45 - 17:45 Conference Session

Mon AM (Nov. 21)	Opening Remark / Keynote Speech (Conference Room: Banquet Hall)		
08:15-08:30	President Jow-Lay Huang		Opening Remark
08:30-09:15	Prof. Allan Matthews (<i>Keynote</i>) (Chair: Joe Greene)	Sheffield University UK	Optimising Tribo-contact Performance Using Plasma-based Surface Engineering Processes
09:15-10:00	Prof. David Ginley (<i>Keynote</i>) (Chair: Li-Chyong Chen)	National Renewable Energy Laboratory, USA	Thin Film PV Challenges for Terawatt Production - Emerging Technologies
10:00-10:45	Group Photos / Session Break		
Mon AM (Nov. 21)	Symposium A: Coatings for sustainable energy		
	<i>Session Chair: J. H. Hsieh</i>		Conference Room: Meeting Room (M104)
10:45-11:15	Prof. Yong Soo Cho (<i>Invited</i>)	Yonsei University Korea	Potentials of Modified Cu ₂ ZnSnSe ₄ -Based Absorbers for Thin Film Solar Cells
11:15-11:30	Chris Yuan	University of Wisconsin U.S.A.	ALD Fabrication of TiO ₂ Multiwall Nanotube Anode for Dye-Sensitized Solar Cells
11:30-11:45	Parvathy Devi	National Chung Hsing University Taiwan	“Electrical Annealing” Effect in P3HT:PCBM Bulk Heterojunction Polymer Solar Cells
11:45-12:00	D. Wong	National Taiwan University Taiwan	Synthesis Silicon Thin Films From Common Glass
12:00-12:15	Chia-Ying Su	National Cheng Kung University Taiwan	CuInS ₂ Thin Films Prepared Using Single Crystal Cu ₂ In ₂ O ₅ Nanoparticles
12:30-13:30	Lunch Break		
Mon PM (Nov. 21)	Symposium A: Coatings for sustainable energy		
	<i>Session Chair: Bohr-Ran Huang</i>		Conference Room: Meeting Room (M104)
13:30-14:00	Prof. Dung-Ching Perng (<i>Invited</i>)	National Cheng Kung University Taiwan	Nano-Structured Cu ₂ O Solar Cells and Its Growth Characteristics on an Array of ZnO Nanorods
14:00-14:15	Wei-Ting Lin	National Central University Taiwan	Crystallization Phase Transition in the Precursors of CIGS-Based Solar Cells
14:15-14:30	Yih-Min Yeh	WuFeng University Taiwan	Suppression of CuS Phases in CuInS ₂ Electrodeposition and Sulfurization
14:30-14:45	Po-Chuan Tsai	National Chiao Tung University Taiwan	The Effect of Post-treatments for Chemical Bath Deposited Zn(S,O,OH) Film
14:45-15:00	S. M. Huang	East China Normal University China	Growth of Cu(In, Ga)Se ₂ Thin Films by Sputtering from Quaternary Chalcogenide Targets with Different In Contents
15:00-15:15	Hsiang Chen	National Chi Nan University Taiwan	Investigation of the CuInSe ₂ Film Prepared by One-step Electrodeposition
15:30-16:00	Session Break		
Mon PM (Nov. 21)	Symposium A: Coatings for sustainable energy		
	<i>Session Chair: K. F. Chiu</i>		Conference Room: Meeting Room (M104)
16:00-16:30	Prof. Hiromasa Ohmi (<i>Invited</i>)	Osaka University Japan	Chemical Transport Technique in High-Pressure Plasma for Crystalline Si Based Solar Cell
16:30-16:45	Yue-Han Wu	National Chiao Tung University Taiwan	Growth of Indium-Rich AlInN Film on GaN by Molecular Beam Epitaxy
16:45-17:00	Masato Sone	Tokyo Institute of Technology Japan	Crystal Growth on Novel Cu Electroplating Using Suspension of Supercritical CO ₂ in Electrolyte with Cu particles
17:00-17:15	Young Soo Lim	Korea Institute of Ceramic Engineering and Technology, Korea	Effects of SiO ₂ Interlayer on the Properties of Al-Doped ZnO Deposited on Polyimide Substrate
17:15-17:30	Yang-Shih Lin	National Chung Hsing University Taiwan	Preparation of Al-doped ZnO Films by Different Ratio of Oxygen to Argon Condition Apply of Amorphous Silicon Thin Film Solar Cells

Nov. 22, 2011, Tuesday		➤ 07:30-16:30	Registration
		➤ 08:15-10:30	Keynote Speech
		➤ 11:00-12:15	Conference Session
		➤ 12:15-14:15	Poster Session
Tue AM (Nov. 22)	Keynote Speech (Conference Room: Banquet Hall)		
08:15-09:00	Prof. Hans Hofsässs (Keynote) (Chair: Jyh-Ming Ting)	University of Goettingen Germany	Synthesis of Nanostructured Films by Self-organization
09:00-09:45	Prof. Stan Veprek (Keynote) (Chair: Fu-Hsing Lu)	Technical University Munich Germany	Design Concept for Hard and Superhard Nano-Structured Coatings, the Critical Parameters for their Preparation and Industrial Applications
09:45-10:30	Prof. Sam Zhang (Keynote) (Chair: Aleksey Yerokhin)	Nanyang Technological University Singapore	Toughness evaluation of hard coatings and thin films
10:30-11:00	Session Break		
Tue AM (Nov. 22)	Symposium A: Coatings for sustainable energy		
	<i>Session Chair: Hsiang Chen</i>		Conference Room: Meeting Room (M104)
11:00-11:30	Prof. K. F. Chiu (Invited)	Feng Chia University Taiwan	Pulsed Plasma Induced Protective Coatings on Composite LiMn ₂ O ₄ Powder Cathodes.
11:30-11:45	Jia Xun Du	National Cheng Kung University Taiwan	Ni assisted Growth of Carbon Nanotubes on Activated Carbon Cloth and the Electrochemical Capacitor Performance
11:45-12:00	Yan-Ru Chen	National Taiwan University Taiwan	Thin Catalyst Layer Deposited on Proton-Exchange Membrane by Self Breathing Method
12:15-14:15	Lunch Break Poster Session (Symposium A - Symposium F)		
14:30-18:30	Half Day Tour		
19:00-22:00	Banquet (Banquet Hall)		

Nov. 23, 2011, Wednesday		➤ 07:30-12:00	Registration
		➤ 08:15-10:30	Keynote Speech
		➤ 11:00-15:00	Conference Session
Wed AM (Nov. 23)	Keynote Speech (Conference Room: Banquet Hall)		
08:15-09:00	Dr. Kuei-Hsien Chen (Keynote) (Chair: Jow-Lay Huang)	National Taiwan University Taiwan	Nanomaterials for Hydrogen Energy Conversion
09:00-09:45	Prof. Yury Gogotsi (Keynote) (Chair: Masahiro Yoshimura)	Drexel University USA	Carbide-Derived Carbon Films for Capacitive Energy Storage
09:45-10:30	Prof. J.G. Duh (Keynote) (Chair: Ming-Show Wong)	National Tsing Hua University Taiwan	Quest for Multi-functional Coatings
10:30-11:00	Session Break		
Wed AM (Nov. 23)	Symposium A: Coatings for sustainable energy		
	<i>Session Chair: Edward Yi Chang</i>		Conference Room: Meeting Room (M104)
11:00-11:30	Prof. Jenq-Yang Chang (Invited)	National Central University Taiwan	Investigation of the Amorphous to Microcrystalline Phase Transition of Thin Film Prepared by Electron Cyclotron Resonance Chemical Vapor Deposition Method
11:30-11:45	Yi-Feng Hsieh	National Formosa University Taiwan	Modulation Intrinsic Layer Electrode Distance of Flexible A-Si:H Solar Cells with Low Temperature by VHF PECVD
11:45-12:00	Man Chi Huang	National Chiao Tung University Taiwan	Improvement of Heterojunction with Intrinsic Thin Layer (HIT) Solar Cell Performance by Using VHF-PECVD System
12:00-12:15	Shuo-Jen Lee	Yuan Ze University Taiwan	Influence of the Molybdenum Thickness on the Conversion Efficiency of Thin-Film A-Si:H Solar Cells Grown on the 304BA Stainless Steel Substrate
12:30-13:30	Lunch Break		

Wed PM (Nov. 23)	Symposium A: Coatings for sustainable energy		
13:30-14:00	Prof. Edward Yi Chang <i>(Invited)</i>	National Chiao Tung University Taiwan	Growth of GaN HEMT Epitaxial Structure on Si Substrate for High Power Electronic Applications
14:00-14:15	Way Foong Lim	Universiti Sains Malaysia Malaysia	Effects of Spin Coating Rates on Metal-Organic Decomposed Lanthanum Cerium Oxide Film
15:00	Conference Adjourn		