

Nov. 20, 2011, Sunday		➤ 09:00 - 17:00	Short Course
		➤ 16:00 - 20:30	Registration
		➤ 18:30 - 20:30	Reception – <i>Banquet Hall</i>
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 C: Optical, optoelectronic and dielectric coatings		
	<i>Session Chair: Neng-Fu Shih</i>		Conference Room: Banquet Hall II
10:45-11:15	Prof. J. H. He (<i>Invited</i>)	National Taiwan University Taiwan	Photon Management Using Nanostructured Thin Films in Solar Cells
11:15-11:30	Yi-Jia Chen	National Dong Hwa University Taiwan	The Effect of Surface Modification by Oxygen and Acid Treatment on the Efficiency of Dye-Sensitized Solar Cells
11:30-11:45	Yu-Jyun Chen	National Cheng Kung University Taiwan	Exploaration of Nanorod CuZnSnS (CZTS) Thin Films for Solar Cells Using Combinatorial Magnetron Sputtering
11:45-12:00	Ruo-Ping Chang	National Cheng Kung University Taiwan	Cu(In,Al)Se ₂ Near-Infrared Photodetectors
12:00-12:15	Sachin D Kshirsagar	University of Hyderabad India	A Comparison of Optical Dispersion and Band Gap Energy of Wurtzite and Zinc Blende ZnTe Thin Films
12:30-13:30	Lunch Break		
Mon PM (Nov. 21)	Symposium C: Optical, optoelectronic and dielectric coatings		
	<i>Session Chair: J. H. He</i>		Conference Room: Banquet Hall II
13:30-14:00	Prof. Yi-Jia Chen (<i>Invited</i>)	National Dong Hwa University Taiwan	Preparation of Titanium Dioxide Film by Flat-Flame Chemical Vapor Deposition Method for the Dye-Sensitized Solar Cell
14:00-14:15	Chuan Li	National Central University Taiwan	Optical Study on Indium Zinc Oxide Thin Films by Sputtering Process
14:15-14:30	Chia-Feng Lin	National Chung Hsing University Taiwan	Characterization of the Well-Aligned ZnO Nanorod Structure on a Pulsed Laser Deposited AlZnO Seed Layer
14:30-14:45	Pei-Wen Wu	Feng Chia University Taiwan	Structural and Electrical Properties of Low Temperature Solution-Processed ZnO Semiconductor Thin Films
14:45-15:00	Jheng-Ming Huang	National Chiao Tung University Taiwan	Growth of Epitaxial Quality ZnO Films on M-Plane Sapphire Grown by Atomic Layer Deposition Flow-Rate Interruption Process
15:00-15:15	Jiahao Liang	National Dong Hwa University Taiwan	Preparation of p-type ZnO Film on the GaAs Substrate by Thermal Annealing Treatment
15:30-16:00	Session Break		
Mon PM (Nov. 21)	Symposium C: Optical, optoelectronic and dielectric coatings		
	<i>Session Chair: Kao-Shuo Chang</i>		Conference Room: Banquet Hall II
16:00-16:30	Prof. Peter Chen (<i>Invited</i>)	National Cheng Kung University Taiwan	Sputtered TCO Thin Film for Solid-State Dye-Sensitized Solar Cells Application
16:30-16:45	Muluken Aklilu	National Taiwan University of Science and Technology, Taiwan	Self-Assembled Monolayers Assisted Thin Film Growth of Aluminum Doped Zinc Oxide by Spray Pyrolysis Method
16:45-17:00	Hsin-Cheng Lai	National Chung Hsing University Taiwan	Study on the Material and Optical Properties of Ultra-Violet (UV) Laser (355 nm) Annealed Amorphous InGaZnO ₄ Films
17:00-17:15	Tien-Chai Lin	Kun Shan University Taiwan	Thickness Effects of ZnO Interlayer Improving the Properties of AZO Films Grown on Polycarbonate Substrate by Sputtering
17:15-17:30	Mohammad Islam	National University of Science and Technology, Pakistan	Comparative Study of Intrinsic and Aluminum-Doped Zinc Oxide Thin films Prepared Using RF-Plasma Magnetron Sputtering and Sol-Gel Techniques for Solar Cell Applications

17:30-17:45	Yong-June Choi	Yonsei University Korea	Post-Annealing Effect on ZnO and Al-Doped ZnO Thin Films Deposited by Atomic Layer Deposition
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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 Hofsäas (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 C: Optical, optoelectronic and dielectric coatings		
	<i>Session Chair: Peter Chen</i>		Conference Room: Banquet Hall II
11:00-11:30	Dr. Ching-Shun Ku (Invited)	National Synchrotron Radiation Research Center, Taiwan	Characterization of Epitaxial Ga-Doped ZnO Thin Films on (10-10) M-Plane Sapphire Growth by Instantaneous Doping Atomic Layer Deposition Method
11:30-11:45	Yang Geng	Fudan University China	Effects of Rapid Thermal Annealing on Optical, Structural and Electrical Properties of Al-Doped ZnO Films Grown by Atomic Layer Deposition
11:45-12:00	Neng-Fu Shih	Hsiuping University of Science and Technology, Taiwan	Transparency Conducting AZO Films Sputtered by Using DC and RF Power Simultaneously
12:00-12:15	Hyuncheol Kim	Yonsei University Korea	A Study on Electrical Property of Graphene Incorporated Direct-Patternable ZnO Thin Films
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 C: Optical, optoelectronic and dielectric coatings		
	<i>Session Chair: Shu-De Yao</i>		Conference Room: Banquet Hall II
11:00-11:30	Prof. Tupei Chen (Invited)	Nanyang Technological University Singapore	Optical and Luminescence Properties of Si-Implanted Si ₃ N ₄ thin films
11:30-11:45	Nur Maisarah Abdul Rashid	University of Malaya Malaysia	Amorphous Silicon Carbide Films Prepared by Hybrid PECVD/Sputtering Deposition System: Effects of RF Power

Symposium C: Optical, optoelectronic and dielectric coatings

11:45-12:00	Bo-Huei Liao	National Applied Research Laboratories, Taiwan	Improved Optical and Mechanical Properties of Silicon Nitride Films by Pulse DC Unbalanced Magnetron Sputtering
12:30-13:30	Lunch Break		
Wed PM (Nov. 23)	Symposium C: Optical, optoelectronic and dielectric coatings		
	<i>Session Chair: Yi-Jia Chen</i>		Conference Room: Banquet Hall II
13:30-14:00	Prof. Shu-De Yao (Invited)	Peking University China	Structural Investigation of CIGS and InGaN Thin-Film Solar Cells by Ion Beam Technology
14:00-14:15	Y.F. Chen	National Tsing Hua University Taiwan	A Conceptual Model for Spray Pyrolysis Mechanism: Fabrication of Amorphous Alumina Thin Films
14:15-14:30	Tien-Tsai Wu	National Cheng Kung University Taiwan	Preparation and Characteristics of Graphene Oxide and Its Thin Films
14:30-14:45	Tong Lin	Deakin University Australia	Structure of Mesoporous Silica Films Studied by Grazing Incidence Small Angle X-ray Scattering
15:00	Conference Adjourn		