

**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
- 13:30 - 17:45 Conference Session

<b>Mon AM</b> (Nov. 21)	<b>Opening Remark / Keynote Speech</b> (Conference Room: Banquet Hall)		
<b>08:15-08:30</b>	<b>President Jow-Lay Huang</b>		<b>Opening Remark</b>
<b>08:30-09:15</b>	<b>Prof. Allan Matthews</b> ( <i>Keynote</i> ) (Chair: Joe Greene)	Sheffield University UK	<b>Optimising Tribo-contact Performance Using Plasma-based Surface Engineering Processes</b>
<b>09:15-10:00</b>	<b>Prof. David Ginley</b> ( <i>Keynote</i> ) (Chair: Li-Chyong Chen)	National Renewable Energy Laboratory, USA	<b>Thin Film PV Challenges for Terawatt Production - Emerging Technologies</b>
<b>10:00-10:45</b>	<b>Group Photos / Session Break</b>		
<b>Mon PM</b> (Nov. 21)	<b>Symposium F: General subjects related to thin films and coatings</b>		
	<i>Session Chair: Aleksey Yerokhin</i>		Conference Room: Meeting Room (M102)
<b>13:30-14:00</b>	<b>Prof. Gwo-Ching Wang</b> ( <i>Invited</i> )	Rensselaer Polytechnic Institutes USA	Nano-engineered Thin Films by Physical Vapor Deposition
<b>14:00-14:15</b>	<b>Wan-Yi Ye</b>	National Cheng Kung University Taiwan	Flexible IGZO TFT deposited on PET substrate using triple-target magnetron radio frequency sputter system
<b>14:15-14:30</b>	<b>Hsin-Hsing Yin</b>	National Cheng Kung University Taiwan	Sodium aluminosilicate thin film on flexible metal substrates
<b>14:30-14:45</b>	<b>M. C. Shih</b>	National Sun Yat-sen University Taiwan	Investigations of the interfacial properties of P3HT:PCBM by using cross-sectional STM
<b>14:45-15:00</b>	<b>Jrjeng Ruan</b>	National Cheng Kung University Taiwan	Influence of Crystal Evolution on Thin-Film Morphology of Newly Designed Oligothiophene Derivatives
<b>15:00-15:15</b>	<b>S. Sarapirom</b>	Chiang Mai University Thailand	Surface Functionalization of Poly(lactic acid) Using Ammonia Plasma for Adsorption of Focal Adhesion Kinase
<b>15:15-15:30</b>	<b>Saleem G. Rao</b>	King Fahd University of Petroleum and Minerals, Saudi Arabia	Thickness Variation, Morphology, and Optical Study of Metallic Thin Films on Patterns of Self-assembled Monolayers
<b>15:30-16:00</b>	<b>Session Break</b>		
<b>Mon PM</b> (Nov. 21)	<b>Symposium F: General subjects related to thin films and coatings</b>		
	<i>Session Chair:</i>		Conference Room: Meeting Room (M102)
<b>16:00-16:30</b>	<b>Prof. Aleksey Yerokhin</b> ( <i>Invited</i> )	Sheffield University UK	In-situ Impedance Spectroscopy - a New Tool to Study Plasma Electrolytic Oxidation Processes
<b>16:30-16:45</b>	<b>Chung-Jen Ou</b>	Hsiuping Institute of Technology Taiwan	Optical Properties of Suspending Liquid Crystal Thin Film and Stabilities Regions for VLC Applications
<b>16:45-17:00</b>	<b>Ying -Hui Wu</b>	National Sun Yat-Sen University Taiwan	Theoretical and Numerical Analyses on Multi-Layered Ceramic Capacitors due to High Pressure and Elevated Temperature
<b>17:00-17:15</b>	<b>Chung-Chi Liao</b>	National Taiwan University of Science and Technology, Taiwan	X-ray Photoelectron Spectroscopy Study of Hydrogen-treated Mg-doped GaN Films
<b>17:15-17:30</b>	<b>Chung-Jen Ou</b>	Hsiuping Institute of Technology Taiwan	Semi-Analytical Model for Thin Film Stress Analysis

**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)

<b>08:15-09:00</b>	<b>Prof. Hans Hofsä</b> ( <i>Keynote</i> ) (Chair: Jyh-Ming Ting)	University of Goettingen Germany	<b>Synthesis of Nanostructured Films by Self-organization</b>
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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	<b>Session Break</b>		
Tue AM (Nov. 22)	<b>Symposium F: General subjects related to thin films and coatings</b>		
	Session Chair: <b>Gwo-Ching Wang</b>		Conference Room: Meeting Room (M102)
11:00-11:30	Prof. Dong-Soo Park (Invited)	Korea Institute of Materials Science Korea	Nano-Structured Ceramic Films by Aerosol Deposition
11:30-11:45	Jin-Sha Xu	East China University of Science and Technology China	In situ tensile properties of laser clad WC/Ni composite coatings with different contents of WC particle
11:45-12:00	Yeong-Lin Lai	National Changhua University of Education, Taiwan	Selective Etching of Silicon Nitride and Mo Thin Films for TFT LCDs
12:15-14:15	<b>Lunch Break</b> <b>Poster Session (Symposium A - Symposium F)</b>		
14:30-18:30	<b>Half Day Tour</b>		
19:00-22:00	<b>Banquet (Banquet Hall)</b>		

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)	<b>Keynote Speech</b> (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	<b>Session Break</b>		
Wed AM (Nov. 23)	<b>Symposium F: General subjects related to thin films and coatings</b>		
	Session Chair: <b>J.Y. Wang</b>		Conference Room: Meeting Room (M102)
11:00-11:30	Prof. Ching An Huang (Invited)	Chang Gung University Taiwan	Microstructures and electrochemical corrosion behavior of Cr-Ni-Fe alloy deposits electroplated from a trivalent Cr-based bath
11:30-11:45	Hsiu Min Lin	National Tsing Hua University Taiwan	Evolution of reliability on electroplated and sputtered Ni-Zn films for under bump metallization with Sn-3.0Ag-0.5Cu solder attached during liquid reactions
11:45-12:00	Chien Fu Tseng	National Tsing Hua University Taiwan	Characterization and Wettability of Electroplated Cu-Mn Films in Under Bump Metallurgy with Sn-Ag-Cu Solder
12:00-12:15	Delphic Chen	National Cheng Kung University Taiwan	Effect of Pulse Plating Frequency on Properties of Electrodeposited Copper Films
12:30-13:30	<b>Lunch Break</b>		
Wed PM (Nov. 23)	<b>Symposium F: General subjects related to thin films and coatings</b>		
	Session Chair: <b>Ching An Huang</b>		Conference Room: Meeting Room (M102)
13:30-14:00	Prof. Jason S. C. Jang (Invited)	National Central University Taiwan	Application of Zr-base metallic glass and metallic glass thin film coating on the surgical blade
14:00-14:15	I Made Wahyu D.	National Taiwan University of Science and Technology, Taiwan	High Thermal Stability of Cu Alloy Films for Advanced Barrierless Metallization
14:15-14:30	Ching An Huang	Chang Gung University Taiwan	Electrodeposition of copper on magnesium alloy (AZ 80) with a U shape surface

*Symposium F: General subjects related to thin films and coatings*

<b>14:30-14:45</b>	<b>Md. Arifur Rahman</b>	Yuan Ze University Taiwan	On the Reaction Mechanism between Sn-Ag-Cu Alloy and Amorphous Pd(P) Thin Film of ENEPIG Surface Finish
<b>14:45-15:00</b>	<b>W. H. Wu</b>	Yuan Ze University Taiwan	Reliability Evaluation on A Submicron Ni(P) Thin Film for Lead-Free Soldering
<b>15:00</b>	<b>Conference Adjourn</b>		