	<b>&gt;</b> 09:0	00 - 17:00	Short Course
Nov. 20, 2011, Sunday	<b>&gt;</b> 16:0	0 - 20:30	Registration
, , ,	<b>&gt;</b> 18:3	80 - 20:30	Reception – Banquet Hall

			1 1					
Nov. 21, 2011, Monday  > 07:30 - 16:30 Registration  > 08:15 - 10:00 Opening Remark / Keynote Speech  > 10:45 - 15:30 Conference Session								
Mon AM (Nov. 21)								
08:15-08:30	Preside	ent Jow-Lay Huang	Opening Remark					
08:30-09:15	Prof. Allan Matthe (Keynote) (Chair: Joe Green	Sheffield University	Optimising Tribo-contact Performance Using Plasma-based Surface Engineering Processes					
09:15-10:00	Prof. David Ginle (Keynote) (Chair: Li-Chyong C	I aboratory USA	Thin Film PV Challenges for Terawatt Production - Emerging Technologies					
10:00-10:45		Group Photo	s / Session Break					
Mon AM		Symposium D: Tribolog	gical and protective coatings					
(37 84)	Session Chair: <b>Pei</b>	· · · · · · · · · · · · · · · · · · ·	Conference Room: Formosa Restaurant II					
10:45-11:15	Prof.	Technische Universität Dortmund Germany						
11:15-11:30	Chang Sun Park	Yonsei University Korea	Effect of boron and silicon doping on the structure and electrical conductivity of diamond like carbon films by magnetron sputtering deposition					
11:30-11:45	Kung-Jeng Ma	Chung Hua University Taiwan	Study of Densification and Plastic Deformation Behaviour of Ultra-tough a-C/a-C:Cr Multilayer Coatings Under Indentation and Scratch Tests					
11:45-12:00	Maisara Othman	University of Malaya Malaysia	Effect of N <sub>2</sub> Flow Rate on The Properties of CN <sub>x</sub> Thin Films Prepared By Rf PECVD System From Ethane and Nitrogen					
12:00-12:15	Tobias Sprute	Technische Universität Dortmund Germany	Influence of Bias Voltage on Residual Stresses and Tribological Properties of TiAlVN-Coatings at Elevated Temperatures					
12:30-13:30		Lunc	h Break					
Mon PM		Symposium D: Tribolog	gical and protective coatings					
(Nov. 21)		Liang He / Fu-Hsing Lu	Conference Room: Formosa Restaurant II					
13:30-14:00	Prof. Ju-Liang He (Invited)	Feng Chia University Taiwan	Affordable High Plasma Density Physical Vapor Depositions					
14:00-14:15	Wei-En FU	Industrial Technology Research Institute, Taiwan	Nano-Scratch Evaluations of Cu-CMP Films					
14:15-14:30	Hsien-Wei Chen	National Tsing Hua University Taiwan	Effects of titanium contents on the microstructures and mechanical properties of Cr-Ti-B-N nanocomposite thin films					
14:30-14:45	Hao-Chih Liu	National Cheng Kung University Taiwan	Ion-Beam-Sputter Deposited Titanium Nitride Thin Films for Conductive AFM Probes					
14:45-15:00	Z.C. Wang	Xiamen University China	Relationship between tribological properties and oxidation behaviors of ${\rm Ti_{0.34}Al_{0.66}N}$ coatings at elevated temperature up to $1000^{\circ}{\rm C}$					
15:00-15:15	Chia-Lin Li	National Taiwan University of Science and Technology, Taiwan	The effects of sputtering parameters on the microstructures and mechanical properties of Zr-based metallic glass thin film deposited by pulsed DC magnetron sputtering					
15:15-15:30	An-Ni Wang	Tsing Hua University Taiwan	Measurement of Fracture Toughness on Transition Metal Nitride Thin Films					

Nov. 22, 2011, Tuesday		sday >	07:30-16:30 08:15-10:30 11:00-12:15 12:15-14:15	Keynote Speech Conference Session
Tue AM (Nov. 22)	<b>Keynote Speech</b> (Conference Room: Banquet Hall)			
08:15-09:00	Prof. Hans Hofsäss (Keynote) (Chair: Jyh-Ming Ting)	University of Goo Germany	Goettingen Synthesis of Nanostructured Films	

09:00-09:45	Prof. Stan Vep (Keynote) (Chair: Fu-Hsin	- Lechnical Liniversity		Munich	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	Symposium D: Tribological and protective coatings						
(Nov. 22)			ee	Cor	Conference Room: Formosa Restaurant II		
11:00-11:30	Prof. Fu-Hsing Lu (Invited)	National Chung Hsing University Taiwan		Air-based sputtering deposition and corresponding processing windows of TiN, TiNxOy, and N-doped TiOx thin films			
11:30-11:45	Mehmet Tarakci	Gebze Institute of Technology Turkey		The Effect	t of Zn on the Microarc Oxidation Coating Behavior of Synthetic Al-Zn Binary Alloys		
11:45-12:00	S.A. Pyachin	Russian Academy of Sciences Russia		WC-Co-ba	ased electrospark coatings: deposition, composition and wear resistance		
12:00-12:15	Rong Tu	Tohoku University Japan		Preparati	Preparation of alpha-Al <sub>2</sub> O <sub>3</sub> film by plasma enhanced chemic vapor deposition		
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)						

	Banquet (Banquet rian)						
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		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		Jniversity	Quest for Multi-functional Coatings			
10:30-11:00	Session Break						
Wed AM	AM Symposium D: Tribological and protective coatings					rotective coatings	
	Session Chair: <b>Jia-</b> H				Conference Room: Formosa Restaurant II		
11:00-11:30	Prof. Y. Y. Chang (Invited)	National Formosa University Taiwan		Mechanical properties and thermal stability of multicomponent coatings synthesized by cathodic arc evaporation			
11:30-11:45	Pramoda K. Nayak	National Cheng Kung University Taiwan			Graphene Coated Ni Films: A Protective Coating		
11:45-12:00	Zhen-bing Cai	Southwest Jiaotong University PRC				tructures evolution and fretting wear properties triogen implantation /Cr /CrSiN multilayered thin films	
12:00-12:15	Ting-Pin Cho	National Kaohsiung First University Science and Technology, Taiwan			High	temperature oxidation of Cr <sub>2</sub> N coatings in air	
12:30-13:30	Lunch Break						
Wed PM	Symposium D: Tribological and protective coatings						
(Nov. 23)	Session Chair: Y.Y.			Conference Room: Formosa Restaurant II			
13:30-14:00	Prof. Jia-Hong Huang (Invited)		Taiwan			304 Stainless Steel Deposited by Ion Plating	
14:00-14:15	Choung-Lii Chao		nkang University Taiwan		Study on the Design of Precious Metal Based Protective Film and Its Interfacial Reaction with Optical Glasses		
14:15-14:30	H. Samadi	Uni	versity of Toronto Canada	For	Forsterite/Mullite Coatings for Thermal Barrier Coating Application		
15:00	Conference Adjourn						