		S	Symposium B: Nanostructured and nanocomposite coating				
1	Nov. 20, 2011		09:00 - 17:00 Short Course 16:00 - 20:30 Registration 18:30 - 20:30 Reception - Banquet Hall				
Ν	Nov. 21, 2011	, Monday >	07:30 - 16:30Registration08:15 - 10:00Opening Remark / Keynote Speech10:45 - 17:45Conference Session				
Mon AM (Nov. 21)	Opening Remark / Keynote Speech						
08:15-08:30	Prosic	(Conference Room: Banquet Hall) ident Jow-Lay Huang Opening Remark					
08:30-09:15	Prof. Allan Matth (Keynote) (Chair: Joe Green	ews Sheffield University	Optimising Tribo-contact Performance Using Plasma-based Surface Engineering Processes				
09:15-10:00	Prof. David Ginl (Keynote) (Chair: Li-Chyong (I aboratory USA	y Thin Film PV Challenges for Terawatt Production - Emerging Technologies				
10:00-10:45	Group Photos / Session Break						
Mon AM	Syr	nposium B: Nanostruct	ured and nanocomposite coatings				
(Nov. 21)	Session Chair: Ko	io-Shuo Chang	Conference Room: Meeting Room (M105)				
10:45-11:15	Prof. C.T. Kuo (Invited)	National Chiao Tung University Taiwan	Process development on high performance system chip with a MWCNTs-assisted sensing array for toxic gases				
11:15-11:30	Noor Hamizah Khanis	University of Malaya Malaysia	Catalyst Free Carbon Nitride Nanostructures Prepared by rf-PECVD Technique on Hydrogenated Amorphous Carbon Template				
11:30-11:45	Yuexiu Qiu	Central Iron and Steel Research Institute, China	Influence of sputtering conditions on VN film's mechanical performance				
11:45-12:00	Q.F. Fang	Chinese Academy of Sciences China	Characterization of W _{1-x} Ta _x Ny hard films synthesized by direct current magnetron sputtering				
12:00-12:15	Z.B. Qi	Xiamen University China	Influence of yttrium addition on microstructure and mechanical properties of ZrN coatings				
12:30-13:30	Lunch Break						
Mon PM	Syr	nposium B: Nanostruct	ured and nanocomposite coatings				
	Session Chair: C. '		Conference Room: Meeting Room (M105)				
13:30-14:00	Prof. Hao-Chih Liu (Invited)	National Cheng Kung University Taiwan	Fabrication and Characterization of Electroless Ni-P Films for Micro Heating Devices				
14:00-14:15	Ramin Ghelichi	Politecnico di Milano University Italy	Residual stress measurement and grain size estimation in cold spray coating with numerical simulations				
14:15-14:30	C. W. Chu	Metal Industries Research & Development Centre, Taiwan	Study of The Characteristics and Corrosion Behavior For The Zr-Based Metallic Glass Thin Film Fabricated by Ion Beam Process				
14:30-14:45	Kou-Chen Liu	Chang Gung University Taiwan	Effect of ITO electrode with different oxygen contents on the electrical characteristics of HfOx RRAM devices				
14:45-15:00	Wen Hsuan Chao	Industrial Technology Research Institute, Taiwan	Enhanced Thermoelectric Properties of Bi ₂ Te ₃ Doping Zn ₄ Sb ₃ by Combinatorial Approach				
15:30-16:00			sion Break				
Mon PM	Symposium B: Nanostructured and nanocomposite coatings						
(Nov. 21)	Session Chair: Ho		Conference Room: Meeting Room (M105)				
16:00-16:30	Prof. Jinn P. Chu (Invited)	National Taiwan University of Science and Technology Taiwan	Metallic-Glass Films for Fatigue-property Improvements				
16:30-16:45	Lin Chen	Fudan University China	Investigation of Current Controlled Multilevel Resistance Switching in Atomic Layer Deposited NbAlO Films as Memristors				
16:45-17:00	Chih Ju Lin	Chang Gung University Taiwan	The ZrO ₂ Charge Trapping Layer in Flash Memory Applications				
N	Nov. 22, 2011	, Tuesday	07:30-16:30Registration08:15-10:30Keynote Speech11:00-12:15Conference Session12:1514:15				

12:15-14:15

 \triangleright

Poster Session

Symposium B: Nanostructured and nanocomposite coatings

Tue AM	Symposium B: Nanostructurea and nanocomposite coating						
(Nov. 22)							
08:15-09:00	Prof. Hans Hofsäss (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 <i>(Keynote)</i> (Chair: Aleksey Yerokhin)		Nanyang Technological University Singapore		Toughness evaluation of hard coatings and thin films		
10:30-11:00	Session Break						
Tue AM	Symposium B: Nanostructured and nanocomposite coatings						
(Nov. 22)	Session Chair: Hao-Chih Liu			Conference Room: Meeting Room (M105)			
11:00-11:30	Prof. Jai-Lin Tsai (Invited)	(Invited) Taiwan			Effects of gain boundary materials on perpendicular FePt films		
11:30-11:45	Kee Wah Chan	Malaysia			Growth of Gold Nanoparticles Embedded in the nc-Si:H Film on Dielectric and Crystal Silicon Surface		
11:45-12:00	In Keun Jung Yonsei University Korea				A study on the properties of Zr doped γ-Al ₂ O ₃ aerogel synthesized by using solvothermal drying		
12:15-14:15				nch Bre			
	Poster Session (Symposium A - Symposium F)						
14:30-18:30	Half Day Tour						
19:00-22:00			Banquet	(Banqı	uet Hall)		
No Wed AM (Nov. 23)	ov. 23, 2011, Wednesday > 08:15-10:30 Keynote Speech > 11:00-15:00 Conference Session Keynote Speech (Conference Room: Banquet Hall)						
08:15-09:00	Dr. Kuei-Hsien Chen (Keynote)		National Taiwan University Taiwan		Nanomaterials for Hydrogen Energy Conversion		
09:00-09:45	(Chair: Jow-Lay Huang) Prof. Yury Gogotsi (Keynote) (Chair: Masahiro Yoshimur		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	Symposium B: Nanostructured and nanocomposite coatings						
(Nov. 23)	Session Chair: Jai-Lin Tsai		Conference Room: Meeting Room (M105)				
11:00-11:30	Prof. G. F. lriarte (Invited)	Polytechnic University of Madrid Spain		AlN/diamond heterostructures for SAW resonators above 10 GHz			
		National Tsing Hua University Taiwan		Effect of temperature on the structure and ferroelectric property of La–doped BiFeO ₃ /SrTiO ₃ artificial superlattice structure by rf sputtering			
11:30-11:45	Shang-Jui Chiu		Taiwan		rf sputtering		
11:30-11:45 11:45-12:00	Shang-Jui Chiu Yen-Ting Liu	National C	Taiwan Chiao Tung University Taiwan	Fabrio			
	-	National C	Taiwan Chiao Tung University Taiwan Chiao Tung University Taiwan	Fabrio artifi Electrole	rf sputtering cation and ferroelectric property of BiFeO ₃ /LaNiO ₃ cial superlattice structures grown by RF sputtering ess deposition of Ru films on non-conducting substrates		
11:45-12:00	Yen-Ting Liu	National C	Taiwan Chiao Tung University Taiwan Chiao Tung University Taiwan	Fabrio artifi	rf sputtering cation and ferroelectric property of BiFeO ₃ /LaNiO ₃ cial superlattice structures grown by RF sputtering ess deposition of Ru films on non-conducting substrates		