

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 B: Nanostructured and nanocomposite coatings		
	<i>Session Chair: Masahiro Yoshimura</i>		Conference Room: Meeting Room (M103)
10:45-11:15	Prof. Hyung-Ho Park (<i>Invited</i>)	Yonsei University Korea	Mesoporous Ceramic Thin Films: Preparation, Characterization, and Application
11:15-11:30	Surawut Chuangchote	Kyoto University Japan	Electrospun TiO ₂ Nanofibers Composed of Bundle of Aligned Nanofibrils: Fabrication, Structural and Photoelectronic Properties
11:30-11:45	Kee-Rong Wu	National Kaohsiung Marine University, Taiwan	Preparation of micro porous F-doped WO ₃ /TiO ₂ films as visible-driven photocatalysts for degradation of dye solution
11:45-12:00	Min-Hee Hong	Yonsei University Korea	Platinum nanoparticle embedded TiO ₂ aerogel film for gas sensor application
12:00-12:15	Tae-Jung Ha	Yonsei University Korea	CO gas sensing properties of mesoporous TiO ₂ film with open pore structure
12:30-13:30	Lunch Break		
Mon PM (Nov. 21)	Symposium B: Nanostructured and nanocomposite coatings		
	<i>Session Chair: Franklin C.N. Hong</i>		Conference Room: Meeting Room (M103)
13:30-14:00	Prof. Masahiro Yoshimura (<i>Invited</i>)	National Cheng Kung University Taiwan	Growing Integration Layer [GIL] Method: Direct Fabrication of Compositionally, Structurally and Functionally Graded Nano-Structured Ceramic Films and/or Coatings on Mother Materials in Solution without Firing Processes
14:00-14:15	Cheng Hua Li	National Sun Yat-Sen University Taiwan	Growth of ZnO Nanotubes by Supercritical CO ₂ Fluid mixed with ethanol and water
14:15-14:30	Sung-Ting Chung	National Cheng Kung University Taiwan	Electrodeposition of Ni-P in an Emulsified Supercritical CO ₂ Bath at Various Pressures
14:30-14:45	Bo-Tau Liu	National Yunlin University of Science and Technology, Taiwan	Preparation and characterization of high-refractive-index polymer/inorganic hybrid films containing TiO ₂ prepared by 4-aminobenzoic acid
14:45-15:00	Zainal Abidin Ali	University of Malaya Malaysia	Synthesis of SnO ₂ Nanowires by Thermal Ramping Technique
15:30-16:00	Session Break		
Mon PM (Nov. 21)	Symposium B: Nanostructured and nanocomposite coatings		
	<i>Session Chair: Yi-jia Chen</i>		Conference Room: Meeting Room (M103)
16:00-16:30	Prof. Franklin C.N. Hong (<i>Invited</i>)	National Cheng Kung University Taiwan	Fabrication of Nanodevices using Nanowires as the building block
16:30-16:45	Chih-Jui Ni	National Cheng Kung University Taiwan	Vertically-aligned gallium nitride nanowires grown on conductive titanium nitride films
16:45-17:00	Su Kong Chong	University of Malaya Malaysia	Effect of hot-wire to substrate distance on growth of the Indium-catalyzed Si nanowires
17:00-17:15	Byung Oh Jung	Sungkyunkwan University Korea	Formation of multidimensional transparent top electrodes on highly dense ZnO nanowires by RF magnetron sputtering: deposition evolution and electrical properties

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 Hofsäss (<i>Keynote</i>) (Chair: Jyh-Ming Ting)	University of Goettingen Germany	Synthesis of Nanostructured Films by Self-organization
09:00-09:45	Prof. Stan Veprek (<i>Keynote</i>) (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 (Nov. 22)	Symposium B: Nanostructured and nanocomposite coatings		
	<i>Session Chair: Masahiro Yoshimura</i>		Conference Room: Meeting Room (M103)
11:00-11:30	Prof. Mark C. Hersam (<i>Invited</i>)	Northwestern University USA	Atomically precise chemical functionalization of graphene
11:30-11:45	I-Nan Lin	Tamkang University Taiwan	The role of graphene-like phase on enhancing the electron field emission properties of the ultrananocrystalline diamond films
11:45-12:00	Saleem G. Rao	King Fahd University of Petroleum and Minerals, Saudi Arabia	Patterned Single-Walled Carbon Nanotubes
12:00-12:15	Pankaj M. Koinkar	The University of Tokushima Japan	Increased field emission characteristics from carbon nanotubes treated with hydrogen plasma
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 (<i>Keynote</i>) (Chair: Jow-Lay Huang)	National Taiwan University Taiwan	Nanomaterials for Hydrogen Energy Conversion
09:00-09:45	Prof. Yury Gogotsi (<i>Keynote</i>) (Chair: Masahiro Yoshimura)	Drexel University USA	Carbide-Derived Carbon Films for Capacitive Energy Storage
09:45-10:30	Prof. J.G. Duh (<i>Keynote</i>) (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 B: Nanostructured and nanocomposite coatings		
	<i>Session Chair: Ming-Tzer Lin</i>		Conference Room: Meeting Room (M103)
11:00-11:30	Prof. J. H. Hsieh (<i>Invited</i>)	Ming Chi University of Technology Taiwan	Anti-wear and anti-bacteria TaN-Cu, TaN-Ag, TaN-(Ag,Cu) nanocomposite thin films
11:30-11:45	Desalegn Manayeh	National Taiwan University of Science and Technology, Taiwan	Self-assembled monolayer assisted fabrication of Zinc oxide nano-rods
11:45-12:00	Tong Lin	Deakin University Australia	Transparent Polymer Nanocomposites Containing Partially Exfoliated Layered Double Hydroxide Nanosheets Intercalated with Functional Anions
12:30-13:30	Lunch Break		

Wed PM (Nov. 23)	Symposium B: Nanostructured and nanocomposite coatings		
	<i>Session Chair: J. H. Hsieh</i>		Conference Room: Meeting Room (M103)
13:30-14:00	Prof. Ming-Tzer Lin <i>(Invited)</i>	National Chung Hsing University Taiwan	Tensile-tensile Cyclic Testing of Nanocrystalline Copper Thin Films
15:00	Conference Adjourn		