

# COMPOSITE DURABILITY WORKSHOP

## CDW-11

Seogwipo KAL Hotel Juhu Island, Korea  
June 21-24, 2006

Co-Chairs : Tom Hahn, Yasushi Miyano, Byung-Sun Kim

<b>June 21, 2006, Wednesday</b>		
1200-1800	Arrival and Check-in, Registration	
1900-2100	Welcoming Reception, Seogwipo KAL Hotel	

June 22, 2006, Thursday		
0900-0930	Welcoming Address	
Session Chair : Wooil Lee		
0930-0955	Yoshimichi FUJII	Case study of GFRP Chemical tank for using 9 years
0955-1020	Chun-Gon Kim	Durability test of fiber Bragg grating sensors under various fabrication conditions
1020-1045	Yoji Okabe	Damage Identification in CFRP Grid Structures by Strain Monitoring with FBG Sensor Network
1045-1100	RECESS	
Session Chair : Jang-Kyo Kim		
1100-1125	Byung-Sun Kim	Processing of VGCF Reinforced Carbon Fabric/Ep
1125-1150	Sung-Hoon Ahn	Fabrication of Nano-composite Parts Using Nano Composite Deposition System (NCDS)
1150-1215	Tom Hahn	Graphite Nanoplatelets and Their Application in Polymer Composites
1215-1330	LUNCH	
Session Chair : Hari Dharan		
1330-1355	Sangwook Sihn	Two Experimental Investigations to Improve Damage Resistance in Laminated Composites
1355-1420	James Thomas	Meso-Scale Tiling for the Mitigation of Free-Edge Delamination
1420-1445	Ajit Roy	Innovative Forms and Reinforcements in Aerospace Materials: Nanometer Scale Reinforcement to Three-dimensional Fiber Architecture
1445-1510	Jang-Kyo Kim	Environmental Durability of Organoclay Nanocomposites
1510-1535	RECESS	

<b>June 22, 2006, Thursday</b>		
<i><b>Session Chair : Yoshimichi Fujii</b></i>		
1535-1555	Hari Dharan	Damage Evolution in Notched Composite Laminates Subjected to Cyclic Loading
1555-1620	Frank Jones	Interphases and Matrices, their role in the prediction of durability in a fibre composite
1620-1645	Vistasp Karbhari	Synergistic Effects of Sustained Bending Stress and Hygrothermal Exposure on Durability of E-Glass/Vinylester Composites
<i><b>Session Chair : Masayuki Nakada</b></i>		
1645-1710	Isao Kimpara	Interlaminar Fracture Toughness of Multiaxial Knitted CFRP Laminate under Fatigue, Thermal and Water Environment
1710-1735	Keisuke Toyota	Mechanical Properties of Plain-Woven CFRP reinforced by Spread Fiber Tow during and after Drop-Weight Impact
1735-1800	Quifeng Yu	Mechanical Behaviour of a Polymeric Materials Subjected to Chemical Exposure
1900-2200	WORKSHOP DINNER	

<b>June 23, 2006, Friday</b>		
<i><b>Session Chair : Jim Thomas</b></i>		
0900-0925	Seong-Jo Kim	On the Possibility of Virtual Test of Composite Structures by Supercomputing Technology
0925-1950	Richard Christensen	A PHYSICAL DEFINITION OF YIELD STRESS
0950-1015	Masayuki Nakada	Accelerated Testing for Long-Term Durability of Various FRP Laminates for Marine Use
1015-1040	Tong Earn Tay	SIFT-EFM with Contact and submodeling capabilities
<i><b>Session Chair : Seong-Jo Kim</b></i>		
1040-1105	Yasushi Miyano	Formulation for Time-temperature Dependent Fatigue Strength of CFRP Laminates
1105-1130	Hiroshige Kikukawa	Strength Degradation Model for Fatigue Life Prediction
1130-1155	John Whitcomb	Multiscale Analysis and Interpretation of Load Transfer and Associated Stress Concentration in Textile Composites
1230-1345	LUNCH	
1400-1730	Workshop Tour Around the Island	
1900-2200	Farewell Dinner	

### Guided Tour for the ladies

(Fee : \$40/person)

June 22, 2006

10:00	Start from Hotel
10:50 - 12:00	Visit Dwarfed Potted Plant (Bunjae) Artpia
12:00	Lunch (Bulgoghi) : menu may be changed upon request
13:00 - 14:00	Visit Dragonhead Beach
15:00	Return to Hotel

### Tour Around the Island

(Fee \$40/person)

June 23, 2006

14:00	Start from Hotel
14:30 - 15:30	Sightseeing Ship around Seogwipo sea area
16:00 - 17:00	Visit columnar jointing in Seogwipo area
17:30	Return to Hotel