

### 03.Room B106

#### Session A

오전발표	좌장 : N. S. Choi & S. Motogi
10:20 – 10:40	<b>Flexural Vibration Behavior of the Sandwich Beam Partially Inserted by a Viscoelastic Layer</b> <i>J. T. Park and N. S. Choi (Hanyang Univ.)</i>
10:40 – 11:00	<b>Electric Resistance Change Method for Monitoring of Embedded Delamination of Cross-ply CFRP Plates.</b> <i>A. Todoroki (Tokyo Inst. of Technology)</i>
11:00 – 11:20	<b>Determination of Fracture Toughness, G<sub>c</sub> of CFRP Composites Using Elastic Work Factor under Hydrostatic Pressure Environment</b> <i>K. Y. Rhee (Kyunghee Univ.) and J. H. Lee (Chonbuk National Univ.)</i>
11:20 – 11:35	<b>Coffee Break</b>
11:35 – 11:55	<b>Mechanical and Thermal Properties of Particle Reinforced EPDM Composites</b> <i>M. S. Sohn, K. S. Kim and S. H. Hong (KAIST)</i>
11:55 – 12:15	<b>Permeability Measurement of Obliquely Woven Preforms for Smart RTM</b> <i>S. Motogi, S. Umemoto and T. Fukuda (Osaka City Univ.)</i>
12:15 – 12:35	<b>Effect of Chemical Treatment on Kevlar Fibers for Enhancing the Mechanical Interfacial Properties of Composites</b> <i>S.-J. Park, M.-K. Seo, T.-J. Ma and J.-R. Lee (KRICT)</i>
오후발표	좌장 : J. R. Lee & A. Todoroki
14:00 – 14:20	<b>Effect of Silane Intercalant on Mechanical Interfacial Properties of Epoxy/Clay Nanocomposites</b> <i>S.-J. Park, D.-I. Seo and J.-R. Lee (KRICT)</i>
14:20 – 14:40	<b>Delamination Identification of Composite Laminated Beams Using Frequency Response Change Method</b> <i>T. Inada, Y. Shimamura, A. Todoroki and H. Kobayashi (Tokyo Inst. of Technology)</i>
14:40 – 15:00	<b>Notched Strength of Fiber Reinforced Metal Laminates Containing Circular Hole</b> <i>Y. T. Park, W. Hwang, K. S. Han and H. C. Park (POSTECH)</i>
15:00 – 15:15	<b>Coffee Break</b>
15:15 – 15:35	<b>Tensile and compressive behavior of Fiber/Particle hybrid metal matrix composites</b> <i>K. S. Han, Y. H. Kim, S. W. Jung and H. W. Nam (POSTECH)</i>
15:35 – 15:55	<b>Effects of Stress Triaxiality on Damage Behavior of Rubber-modified Epoxy Adhesive Joint</b> <i>A. Fujinami, K. Osaka, T. Fukuda (Osaka City Univ.) and M. Imanaka (Osaka Univ. of Education)</i>
15:55 – 16:15	<b>Full Micromechanical Analysis of Low-velocity Impact Behavior of Laminated Composite Plates</b> <i>S. J. Kim and K. H. Ji (Seoul National Univ.)</i>

### Room 101

#### Session B

오전발표	좌장 : Y. H. Kim & Y. Narita
10:20 – 10:40	<b>Mechanical Properties of Kint-fabric Pultruded Materials</b> <i>K. Hayashi (Asahi Glass Matex Co.), G. Ohshima, H. Wakabayashi and H. Fukuda (Science Univ. of Tokyo)</i>
10:40 – 11:00	<b>Design and Experimental Investigation of Composite Squirrel Cage Rotor with Temperature Effects</b> <i>S. H. Chang, J. M. Kim and D. G. Lee (KAIST)</i>
11:00 – 11:20	<b>Shearing Modulus of Foamed Core for Sandwich Beams</b> <i>A. Wada, T. Kawasaki, Y. Minoda (Science Univ. of Tokyo), A. Kataoka (Toray Ind.) and H. Fukuda (Science Univ. of Tokyo)</i>
11:20 – 11:35	<b>Coffee Break</b>
11:35 – 11:55	<b>Composites in Construction - Construction with Designed Structures</b> <i>D.-H. Kim and B.-K. Han (Seoul National Univ. of Technology)</i>
11:55 – 12:15	<b>Determination of Internal Conducting Network of CFRP Composites Using Anisotropy of Electrical Conductivity</b> <i>J.B. Park (Univ. of Tokyo), T. Okabe (NIAIST), A. Yoshimura and N. Takeda (The Univ. of Tokyo)</i>
12:15 – 12:35	<b>Nonlinear Dynamic Instability of Composite Spherical Panels</b> <i>J.-J. Lee, C.-H. Yeom (KARI) and I. Lee (KAIST)</i>
오후발표	좌장 : D. G. Lee & O. Byon
14:00 – 14:20	<b>Tensile Fatigue Properties of CFRP with a Hole</b> <i>Y. S. Lee, M. Fukumura and O-Il Byon (Nihon Univ.)</i>
14:20 – 14:40	<b>Design and Analysis of Electromagnetic Wave Absorbing Structure using Layered Composite Plates</b> <i>J.-H. Oh, C.-G. Kim, C.-S. Hong, K.-S. Oh (KAIST) and D.-M. Lee (ADD)</i>
14:40 – 15:00	<b>Multi-criteria Design of Laminated Plates by Use of Statistical Treatment</b> <i>Y. Narita (Hokkaido Inst. of Technology)</i>
15:00 – 15:15	<b>Coffee Break</b>
15:15 – 15:35	<b>Non-linear Free Vibrations of Laminated Composite Shallow Shells</b> <i>A. Abe (Asahikawa National College of Technology)</i>
15:35 – 15:55	<b>Design of a Honeycomb Satellite Platform using Several Optimization Algorithms</b> <i>J. S. Park (Hankuk Aviation Univ.)</i>
15:55 – 16:15	<b>The Study of Analytical Models for Vibration of Laminated Composite Plates</b> <i>Y. Ohta (Hokkaido Institute of Technology)</i>

Room B102

**Session C**

오전발표	좌장 : J.R Youn & T. Fukuda
10:20 – 10:40	<b>Nondestructive Evaluation of Internal Defects for Composite Using Shearography</b> <i>J.-H. Lee, S.-W. Choi, S.-I. Ham, S.-W. Chang (Pusan National Univ.) and J.-H. Byun (KIMM)</i>
10:40 – 11:00	<b>Strain Monitoring of FRP by Fiber Optic Sensors in RTM molding Process</b> <i>T. Kosaka, K. Osaka, Y. Asano and T. Fukuda (Osaka City Univ.)</i>
11:00 – 11:20	<b>Cure Monitoring and Nondestructive Strain-Stress Sensing of Single Carbon Fiber Composites by the Measurement of Electrical Resistance</b> <i>S.-I. Lee, J.-M. Park and J.-H. Choi (Gyeongsang National Univ.)</i>
11:20 – 11:35	<b>Coffee Break</b>
11:35 – 11:55	<b>Monitoring and Shape Control in Hybrid Smart Structure</b> <i>J.-H. Roh and J.-H. Kim (Seoul National Univ.)</i>
11:55 – 12:15	<b>Detection of Cure Shrinkage in FRP Laminates Using EFPI Optical Fiber Sensors in Autoclave Molding</b> <i>K. Osaka, T. Kosaka, Y. Asano and T. Fukuda (Osaka City Univ.)</i>
12:15 – 12:35	<b>Cure Monitoring of Composite Laminates Using Fiber Optic Sensors</b> <i>H.-K. Kang, D.-H. Kang, C.-S. Hong and C.-G. Kim (KAIST)</i>
오후발표	좌장 : J. M. Park & H. Fukuda
14:00 – 14:20	<b>Measuring Dynamic Strain of Composites Using a Gold-Deposited EFPI</b> <i>D.-H. Kim, D.-H. Kang, C.-S. Hong and C.-G. Kim (KAIST)</i>
14:20 – 14:40	<b>Fractographic Investigation of Interfacial Degradation in C Glass Fiber Reinforced Vinylester Composites</b> <i>M. Mizoguchi, Y. Koyama, H. Hamada (Kyoto Inst. of Technology) and Y. Fujii (Seikow Chem. Eng. Machi. Co.)</i>
14:40 – 15:00	<b>Permeability and Flow Advancement in a Multi-Layered Preform for Resin Transfer Molding</b> <i>D. G. Seong and J. R. Youn (Seoul National Univ.)</i>
15:00 – 15:15	<b>Coffee Break</b>
15:15 – 15:35	<b>Three Dimensional Fiber Orientation States in Injection-Molded Short Fiber Reinforced Plastics with a Confocal Laser Scanning Microscope and Numerical Simulation</b> <i>K. S. Lee, S. W. Lee and J. R. Youn (Seoul National Univ.)</i>
15:35 – 15:55	<b>Cure Monitoring of Composite Laminates having Different Fiber Directions by Piezoelectric Ceramics</b> <i>N. Oshima, K. Inoue, S. Motoigi and T. Fukuda (Osaka City Univ.)</i>
15:55 – 16:15	<b>Strengthening of Concrete Beams with FRP Strips : Effects of Adhesive Properties and FRP Thickness</b> <i>J.-K. Kim, B. Gao and K. Y. Leung (Hong Kong Univ. of Science &amp; Technology)</i>
16:15 – 16:35	<b>Tensile Strength and Micro-Hardness Assessment of Thermally Cycled Al-SiC Particulate Composites</b> <i>J.-J. Ahn, S. Ochiai, M. Hojo, M. Tanaka (Kyoto Univ.) and J.-D. Kwon (Yeungnam Univ.)</i>

**THE FOURTH KOREA-JAPAN JOINT SYMPOSIUM ON COMPOSITE MATERIALS**

**October 16, 2003**

organized by

Korean Society for Composite Materials  
Japan Society for Composite Materials

Korea Advanced Institute of Science and Technology, Daejeon, Korea  
October 16, 2003

**SCHEDULE**

October 15 :

19 : 00 – Welcoming Reception (**Yousung Hotel, Yuseonggu, Daejeon**)

October 16 : **Mechanical Engineering Building of KAIST**

08 : 40 – Registration

09 : 00 – 09 : 20 Opening Ceremony

09 : 20 – 09 : 50 Plenary Lecture

10 : 00 – 12 : 45 Technical Session

12 : 45 – 14 : 00 Lunch (**East Faculty Dining Hall of KAIST**)

14 : 00 – 17 : 30 Technical Session

19 : 00 – Banquet (**Adria Hotel, Yuseonggu, Daejeon**)

October 17 :

09 : 30 – 12 : 00

Technical Tour ( Korea Aerospace Research Institute )

**Registration**

Member: 100,000won Students: 30,000won