

7th Japan-Korea Joint Symposium on Composite Materials			
Sept. 25, 2009, Room A			
9:00 ~ 9:20		Opening Ceremony	
		Welcoming Address by Prof. Hiroshi Suemasu (President of the JSCM) Welcoming Address by Prof. D.G.Lee (President of the KSCM)	
9:20 ~ 9:50		Keynote Lecture	Chair: Hiroshi Suemasu (Sophia University)
		Composite Technology and Interdisciplinary Research Professor Chang Sun HONG Department of Aerospace Engineering, Korea Advanced Institute of Science and Technology (KAIST)	
Time	ID	Title	Chairs, Authors
		Properties I	Junji Noda (Yamaguchi University), Dong Joo Lee (Yeungnam University)
10:00 ~ 11:15	2A-01	Constant Life Diagram for a Unidirectional CFRP Laminate Subjected to Off-axis Fatigue Loading	Norihito Itoh, Masamichi Kawai (Tsukuba University)
	2A-02	Off-axis Ratcheting Behavior of a Unidirectional CFRP Laminate at High Temperature	Takashi Kigure, Masamichi Kawai (Tsukuba University)
	2A-03	Effect of Variation in Stress Ratio on the Fatigue Life of a Woven Fabric CFRP Laminate	Kyoung-Mo Yang, Masamichi Kawai (Tsukuba University)
	2A-04	Effect of Local Off-axis Fibers Array on Tensile Properties of CFRP Laminae	Junji Noda, Baosheng Ren, Koichi Goda (Yamaguchi University)
	2A-05	Effect of Magnetic Force on the Compressive and Dynamic Properties of Magnetorheological Elastomers	Sang Ryeoul Ryu, Dong Joo Lee (Yeungnam University), Thanh Trung Do (HoChiMinh University)
		Properties II	Joung-Man Park (Gyeongsang National University), Naoyuki Watanabe (Tokyo Metropolitan University)
11:25 ~ 12:25	2A-06	Low Velocity Impact Damage Response of Vectran-stitched Composites	K.T. Tan, N. Watanabe, H. Hoshi (Tokyo Metropolitan University), Y. Iwahori (JAXA)
	2A-07	Friction and Wear Properties of C/C Composite Materials from Bacterial Cellulose	Yoshihito Ozawa (Fukushima University), Tokio Kikuchi (Fukushima Technology Centre), Masayoshi Watanabe (Koriyama Technical Academy)
	2A-08	Fabrication and Evaluation of Mechanical Properties of Lyocell Fiber Reinforced Polypropylene Composites	Faisal Ahmed Mirza, Ali Md. Afsar (Changwon National University), Byung Sun Kim (KIMS), Jong Il Song (Changwon National University)
	2A-09	A Study of Ballistic Impact Characterization of Kevlar Woven Fabrics Impregnated with a Colloidal Shear Thickening Fluid Using Different Nose Shape Projectiles	Il-Jin Kim, Gun Lim (KAIST), Tae-Hoon Song (Korea University), Chun-Gon Kim (KAIST)
12:25 ~ 13:25		Lunch	
		Properties III	Cheol Kim (Kyungpook National University), Jun Koyanagi (JAXA)
13:25 ~ 14:25	2A-10	Comparison of Interfacial Properties of Fiber Reinforced Epoxy Composite using Micromechanical Techniques at Low Temperature	Joung-Man Park, Zuo-Jia Wang, Joel GnidaKouong (Gyeongsang National University), Moon-Kwang Um (KIMS)
	2A-11	Interfacial Failure Criterion in a Glass Fiber/Epoxy Composite Evaluated by the Cruciform Specimen Method	Shinji Ogihara (Tokyo University of Science), Jun Koyanagi (JAXA)
	2A-12	"Simultaneous Fiber Failure Model" for Determining Unidirectional Composite Strengths	Jun Koyanagi, Masaki Kotani, Hiroshi Hatta (JAXA), Hiroyuki Kawada (Waseda University)
	2A-13	Advanced Accelerated Testing Methodology for Long-Term Life Prediction of Polymer Composites	Masayuki Nakada, Yasushi Miyano (Kanazawa Institute of Technology)
		Manufacturing	Gen Sasaki (Hiroshima University), Yeong Sung Suh (Hannam University)
14:35 ~ 15:35	2A-14	Smart Flow of VaRTM Controlled by Dielectric Heating	Seiji Kobayashi, Ryosuke Matsuzaki, Akira Todoroki, Yoshihiro Mizutani (Tokyo Institute of Technology)
	2A-15	Densification of Aluminum Matrix Composites by Low-pressure Infiltration Method	Gen Sasaki, Yongbum Choi, Kazuhiro Matsugi (Hiroshima University)
	2A-16	Advanced Composite Carbody for Automated People Mover	Takaomi Inada, Tsutomu Hoshii, Motoaki Tanaka (IHI), Se-hyun Cho, Seung-Cheol Lee, Dae-Hwan Kim (Hankuk Fiber Glass)
	2A-17	Topics on Advanced Composite Materials for Aircrafts in Japan	Yasuhiro Yamaguchi (KYC-Japan)
18:30 ~ 20:30		Banquet	

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Sept. 25, 2009, Room B			
9:00 ~ 9:20		Opening Ceremony	
		Welcoming Address by Prof. Hiroshi Suemasu (President of the JSCM) Welcoming Address by Prof. D.G.Lee (President of the KSCM)	
9:20 ~ 9:50		Keynote Lecture	Chair: Hiroshi Suemasu (Sophia University)
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		Monitoring I	Kyungseop Han (POSTECH), Tatsuro Kosaka (Osaka City University)
10:00 ~ 11:15	2B-01	Real-time Monitoring of Rotor Blades using Fiber Bragg Grating Sensors	Sunho Park, Taesung Park, Kyungseop Han (POSTECH)
	2B-02	Strain Transmission Efficiency of FBG Sensor Probes with Various Adhesives for Composite Blade SHM	Sung-In Cho, Seung-Jae Yoo, Eun-Ho Kim, In Lee (KAIST)
	2B-03	Antenna/sensor Multifunctional Composites for the Wireless Detection of Damage	Ryosuke Matsuzaki (Tokyo Institute of Technology), Mark Melnykowycz (Rieter Automotive Management AG), Akira Todoroki (Tokyo Institute of Technology)
	2B-04	Detection of Compressive Damage in CFRP Laminates by Electrical Resistance Change Method	Kensuke Suzuki, Akira Todoroki, Yoshihiro Mizutani, Ryosuke Matsuzaki (Tokyo Institute of Technology)
	2B-05	Cure Monitoring of Carbon Nano-filler Dispersed Polymers by Fiber Optic Sensors	Tatsuro Kosaka, Kohei Yamamoto, Katsuhiko Osaka, Yoshihiro Sawada (Osaka City University)
		Monitoring II	Ryosuke Matsuzaki (Tokyo Institute of Technology), Seong Sik Cheon (Kongju National University)
11:25 ~ 12:25	2B-06	Strain Sensitivity of FBG Sensor Probe for Monitoring of Wind Turbine Blade Composites	Il-Bum Kwon, Guohua Jin, Dae-Cheol Seo, Dong-Jin Yoon (KRISS), Sung-In Cho, Seung-Jae Yoo, In Lee (KAIST)
	2B-07	Fiber Optic FBG Inclinometers for Safety Monitoring of Large Structures	Il-Bum Kwon, Guohua Jin, Gun-Jin Kim, Dae-Cheol Seo (KRISS)
	2B-08	Delamination Detection in CFRP Plates using Statistical Analysis of Temperature Characteristic of Resistance	Yoshiro Suzuki, Akira Todoroki (Tokyo Institute of Technology), Kosuke Takahashi (UCLA), Yoshihiro Mizutani, Ryosuke Matsuzaki (Tokyo Institute of Technology)
	2B-09	Impact Damage Detection in Scarf-repaired Composites by Visualized Ultrasonic Wave Propagation using Pulsed Laser	Yusaku Ito (University of Tokyo), Ichiya Takahashi (Mitsubishi Electric Corporation), Nobuo Takeda (University of Tokyo)
12:25 ~ 13:25		Lunch	
		Monitoring III	Sung Ho Yoon (Kumoh National Institute of Technology), Nobuo Takeda (The University of Tokyo)
13:25 ~ 14:25	2B-10	Impact Damage Detection of CFRP Panel using Fiber-optic-based Hierarchical Sensing System	Shu Minakuchi, Haruka Tsukamoto, Nobuo Takeda (University of Tokyo)
	2B-11	Improvement of Impact Resistance of Composite Structures Using Shape Memory Alloys	Mi-Sun Rim, Eun-Ho Kim, Myung-Koo Kang, In Lee (KAIST)
	2B-12	Study of Design Change on the Wing of Smart UAV	Jung Jin Lee (Korea Aerospace Research Institute)
	2B-13	Self-Diagnostics of a Macro-Fiber Composite (MFC) Patch under Varied Temperature and Relative Humidity for Impedance-Based SHM	Rudy Tawie, Haeng-Ki Lee (KAIST)
		Green Composites	Hitoshi Takagi (University of Tokushima), Jae Ryouon Youn (Seoul National University)
14:35 ~ 15:20	2B-14	Polyurethane Biocomposites Reinforced with Natural Fibers	Jong-Shin Park, Nari Lee, Oh-Jin Kwon, Min-Jung Kim (Seoul National University)
	2B-15	Binderless Unidirectional Bamboo Fiber Composites: Effect of Molding Conditions on their Mechanical Properties	Hitoshi Takagi, Yoshihiro Takata, Hiroshi Mori (University of Tokushima)
	2B-16	Effects of Interfacial Adhesion between Polymer and Mineral Particles on the Mechanical and Thermal Properties of PLA/mica and PBT/mica Composites	Myung Wook Kim, Doojin Lee, Kwangseok Park, Jae Ryouon Youn (Seoul National University)
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Sept. 25, 2009, Room C			
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		Welcoming Address by Prof. Hiroshi Suemasu (President of the JSCM) Welcoming Address by Prof. D.G.Lee (President of the KSCM)	
9:20 ~ 9:50		Keynote Lecture	Chair: Hiroshi Suemasu (Sophia University)
		Composite Technology and Interdisciplinary Research Professor Chang Sun HONG Department of Aerospace Engineering, Korea Advanced Institute of Science and Technology (KAIST)	
Time	ID	Title	Chairs, Authors
		Analysis I	Yoshihiro Narita (Hokkaido University), Joong Hee Lee (Chonbuk National University)
10:00 ~ 11:15	2C-01	Postbuckling Analysis of Filament Wound Composite Cylindrical Shells Under Hydrostatic Pressure for Underwater Vehicle	In-Hoon Kim, Chul-Jin Moon, Jin-Hwe Kweon, Jin-Ho Choi (Gyeongsang National University)
	2C-02	Buckling and Reduced Stiffness Analyses of Laminated Carbon Fiber Reinforced Polymer Cylindrical Shells	Krishna Kumar Bhetwal, Seishi Yamada, Masayuki Yanagida (Toyohashi University of Technology)
	2C-03	The Reduction of Radar Cross Section of Cylindrical Structure Using a Fiber-Reinforced Composite at X-band	Hong-Kyu Jang, Jae-Hwan Shin, Chun-Gon Kim (KAIST)
	2C-04	Analysis of the Asymmetric Double Cantilever Beam Specimen	Kyohei Kondo (University of Tokyo)
	2C-05	Analysis and Design for the Fibrous Composite Plates Reinforced by Curvilinear Fibers	Shinya Honda, Kosuke Owatari, Yoshihiro Narita (Hokkaido University)
		Analysis II	Yongsok Seo (Seoul National University), Hiroshi Suemasu (Sophia University)
11:25 ~ 12:25	2C-06	Mixed Boundary Value 2-D Elasticity Problems of Structural Elements of Composite Materials	A. M. Afsar, F. A. Mirza, J. I. Song (Changwon National University)
	2C-07	Continuum Strength Analysis with Length Scale Effect on Particle-Reinforced Composites Via Punched Zone Modeling: Feasibility Study	Yeong Sung Suh, Yong Bae Kim (Hannam University), Zhang Kyu Rhee (Young Pyoung Mechanical Co., Ltd.)
	2C-08	Characterization of Mixed-mode II and III Interlaminar Fracture of CFRP Laminates	Atsushi Kondo, Yuta Sato, Hiroshi Suemasu, Katsuhisa Gozu (Sophia University), Yuichiro Aoki (JAXA)
	2C-09	Numerical Analysis of Compression Test of Woven Composite Egg-box Panel with Non-orthogonal Constitutive Model	Seung Hwan Chang (Chungang University), Youngwon Hahn (University of Michigan), Seong Sik Cheon (Kongju National University)
12:25 ~ 13:25		Lunch	
		Analysis III	Goichi Ben (Nihon University), Jong-Shin Park (Seoul National University)
13:25 ~ 14:25	2C-10	Numerical Simulation and Experimental Study on Unsaturated Flow Behavior in Porous Media	Jae Won Jung, Woo Il Lee (Seoul National University)
	2C-11	Cross-section Analysis Design of a Composite Rotor Blade with an Advanced Trailing-edge Flap	Taeseong Kim, Jaehwan Lee, Sang Chul Park, SangJoon Shin (Seoul National University)
	2C-12	Some Sufficient Conditions for Fully Orthotropic Balanced Symmetric Stacking Sequences	Jong-Won Lee, Jin-Won Kim, Hyun-Gi Kim (Korea Aerospace Research Institute)
	2C-13	Stacking Sequence Optimization using Kriging Surface to Maximize Fracture Strength	Takashi Shinoda, Akira Todoroki, Yoshihiro Mizutani, Ryosuke Matsuzaki (Tokyo Institute of Technology)
		Analysis IV	Woo Il Lee (Seoul National University), Shinji Ogihara (Tokyo University of Science)
14:35 ~ 15:20	2C-14	Thermal Analysis of PTFE Electrical Wiring Insulation Material Subjected to Heat Treatment	Sung Ho Yoon (Kumoh National Institute of Technology), Nicola Bowler, Michael R. Kessler (Iowa State University)
	2C-15	Study on Coefficient of Thermal Expansion of CFRP Roll	Naomi Kishitani, Goichi Ben (Nihon University)
	2C-16	Thermal Conductivity of GFRP in the Temperature Region under 100K	Moeko Sugiura, Takayoshi Inoue (Tokyo Institute of Technology)
18:30 ~ 20:30		Banquet	

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9:20 ~ 9:50		Keynote Lecture	Chair: Hiroshi Suemasu (Sophia University)
		Composite Technology and Interdisciplinary Research Professor Chang Sun HONG Department of Aerospace Engineering, Korea Advanced Institute of Science and Technology (KAIST)	
Time	ID	Title	Chairs, Authors
		Nano Composites I	Yoshinobu Shimamura (Shizuoka University), Jung Il Song (Changwon National University)
10:00 ~ 11:15	2D-01	Electromechanical Properties of Newly Developed CNF/Ppy Nanocomposite Material Films	Shuai Zhang, Cheol Kim (Kyungpook National University)
	2D-02	Piezoelectric Properties of Poly(vinylidene Fluoride) and Carbon Nanotube Blends	Yongsok Seo (Seoul National University), Soon Man Hong (KIST)
	2D-03	Physical Properties of Polyethylene/MWCNT Nanocomposites Prepared by in-situ Metallocene	Ji-hun Kim, Yongsok Seo (Seoul National University), Soon Man Hong (KIST)
	2D-04	Optimizing Electrophoretic Deposition Conditions of CNTs/Carbon Composites via Taguchi Method	Yi Qi Wang, Ali Md. Afsar (Changwon National University), Joon Hyung Byun (KIMS), Jung Il Song (Changwon National University)
	2D-05	Conductive and Mechanical Properties of Unidirectionally Aligned CNF/Epoxy Composites by Using AC Electrical Field	Yoshinobu Shimamura, Toshihiro Chiba, Keiichiro Tohgo (Shizuoka University)
		Nano Composites II	In Lee (KAIST), Ning Hu (Chiba University)
11:25 ~ 12:25	2D-06	Swelling and Cationic Dye Adsorption Properties of Poly(acrylamide)/Laponite Nanocomposite Hydrogels	Peng Li, Nam Hoon Kim, Kyung Bok Sun, Joong Hee Lee (Chonbuk National University)
	2D-07	Study on the Variation of the Electric Property of the Composite Films Containing Carbon Nanotubes of Different Lengths	Jin-Bong Kim, Jin-Woo Yi, Jung-Eun Nam (KIMS)
	2D-08	Fabrication, Characterization, and Modeling of Nano-Reinforced Multiscale, Hybrid Composites	Myungsoo Kim (Florida State University), Young-Bin Park (UNIST), Okenwa I. Okoli, Chuck Zhang, Ben Wang (Florida State University)
	2D-09	Interfacial Mechanical Properties of CFRP Laminates with VGCF Interlayer	Yuan Li (Chiba niversity), Naoki Hori (Tohoku University), Masahiro Arai (Shinshu University), Ning Hu (Chiba University), Hisao Fukunaga (Tohoku University)
12:25 ~ 13:25		Lunch	
		Structure & Joint I	Il-Bum Kwon (Korea Research Institute of Standards and Science), Nobuhide Uda (Kyushu University)
13:25 ~ 14:25	2D-10	A Study on the Effect of Manufacturing Methods to the Shear Strength of Composite Single-Lap Bonded Joints	Bae-Hyun Choi, Min-Gyu Song, Jin-Hwe Kweon, Jin-Ho Choi (Gyeongsang National University)
	2D-11	A Experimental Study of Composite Single-Lap Bonded Joints in Various Environmental Conditions	Hyeon-Jeong Yang, Min-Gyu Song, Jin-Hwe Kweon, Jin-Ho Choi (Gyeongsang National University)
	2D-12	Probabilistic Analysis for Initial Failure Behavior of Composite Pin Joints	Masahiro Geji, Nobuhide Uda, Kousei Ono, Yuichi Hirakawa, Tadashi Nagayasu (Kyushu University)
	2D-13	Effects of the Stacking Sequence on the Damage Behavior of a Pin Joint in Carbon Fiber Reinforced Metal Laminates	Terutake Matsubara, Yoshihiro Takao, Wen-Xue Wang (Kyushu University)
		Structure & Joint II	Yoshihiro Takao (Kyushu University), Haeng-Ki Lee (KAIST)
14:35 ~ 15:20	2D-14	Fatigue Fracture Assessment of Hybrid Composite/Metal Joints for a Tilting Car Body	Dalwoo Jung, Nak-Sam Choi (Hanyang University)
	2D-15	Experimental Study on the Effects of the Thermal Expansion for Composite Space Structures	Dong-Hun Lee, Hong-Il Kim, Jae-San Yoon, Jae-Hung Han (KAIST)
	2D-16	A Fundamental Study on Static Strength Improvement of CFRP Bolted Joints by Increasing Fastening Force	Tsukasa Katsumata, Yoshihiro Mizutani, Akira Todoroki, Ryosuke Matsuzaki (Tokyo Institute of Technology)
18:30 ~ 20:30		Banquet	