

TENTATIVE PROGRAM

【September 13 ,Wednesday】

Opening: Prof. Jun Koyanagi & Prof. Ki-Soo Kim		
	Title	Presenter
1st day	No. 1	Session Chair Prof. Nak-Sam Choi (Hanyang University)
	9:00	Plenary Lecture CONTINUUM DAMAGE MECHANICS MODELING OF COMPOSITE LAMINATES AND ITS APPLICATION TO PROGRESSIVE MATRIX CRACKING IN COMPOSITE LAMINATES Tomonaga Okabe, Sota Onodera, Yuta Kumagai, Yoshiko Nagumo(Tohoku University)
	9:45	Coffee break & Poster session
1st day	No. 2	Session Chair Prof. Motostugu Tanaka (Kanazawa Institute of Technology) & Prof. Gunjin Yun (Seoul National University)
	10:00	Structural Analysis of Composite Laminate Using Novel One-Thread Stitching Process Jonathan Tapullima, Cheolhwan Kim, Jin-Ho Choi(Gyeongsang National University)
	10:15	Multiscale Analysis for Cylindrical CFRP Under Impact Loading Yuta Yamazaki, Yusuke Sawamura, Jun Koyanagi (Tokyo University of Science), Satoru Yoneyama (Aoyama Gakuin University)
	10:30	Evaluation of defect detection and static strength of adhesive joints by CNT dispersion Hyunsung Yoon, Taehyeong Kim, Cheolhwan Kim, Jin-Ho Choi(Gyeongsang National University)
	10:45	Prediction of the Transverse Cracking behavior in Polymer Matrix Composite Laminates Sota Onodera, Yuta Kumagai, Yoshiko Nagumo, Tomonaga Okabe (Tohoku University)
	11:00	Experimental Study on the Failure of Composite Sandwich Joint with Various Configurations Byeong-Su Kwak, Jin-Hwe Kweon(Gyeongsang National University)
	11:30	Welcome Lunch
1st day	No. 3	Session Chair Prof. Ki Soo Kim (Hongik University) & Prof. Yoshinobu Shimamura (Shizuoka University)
	13:15	Process simulation of 3D printed CFRTP Composites: Heat Transfer and Resin Flow Katsuhiko Otsuyama, Akira Todoroki, Yoshihiro Mizutani, Yoshiro Suzuki (Tokyo Institute of Technology)
	13:30	Conductive Nanomaterial-Elastomer Nanocomposite for Physical Sensing Inkyu Park(KAIST)
	13:45	Strength improvement of Composite T-joint using Atypical Stacking Sequence and Deltoid Structure Shinsaku Hisada, Shinsaku Hisada, Shu Minakuchi, Nobuo Takeda (The University of Tokyo)
	14:00	Shrinkage strain distribution of a dental composite analyzed by digital image correlation during dental restoration Jung-Hoon Park, Nak-Sam Choi(Hanyang University)
	14:15	Very High Cycle Fatigue Testing of CFRP Laminates by Using Ultrasonic Fatigue Testing Machine Yoshinobu Shimamura, Takuya Hayashi, Keiichiro Tohgo, Tomoyuki Fujii (Shizuoka University)
	14:30	Coffee break & Poster session
	No. 4	Session Chair Prof. Yutaka Oya (Tohoku University) & Prof. Inkyu Park (KAIST)
1st day	14:45	Trial to Create Microcapsules with Stress-activated Microchannels for Repeatable Self-healing Materials by Means of Coacervation Method Mototsugu Tanaka, Yoshiki Nakamura, Masafumi Yamagata, Isao Kimpara (Kanazawa Inst. Tech.)
	15:00	Micro-composite particles for stable magnetorheological fluids Youngwook Seo, Junsok Choi, Sangsok Han, Yongsok Seo(Seoul National University)
	15:15	Prestressed Composites Using Restoring Force of Wavy and Coil Shaped Stainless Steel Fiber Daichi Shimobayashi, Yoshimi Watanabe, Hisashi Sato (Nagoya Institute of Technology)
	15:30	Effects of SrAl ₂ O ₄ : Eu ²⁺ , Dy ³⁺ Size and Distribution on its Strain Sensing Ability as a Mechanoluminescent Composite Joel R. N. Gnidakoung, Gun Jin Yun(Seoul National University)
	15:45	Coffee break & Poster session
1st day	No. 5	Session Chair Prof. Joong Hee Lee (Chonbuk National University) & Prof. Koichi Goda (Yamaguchi University)
	16:00	Phase separated structures of block-copolymer melts for a matrix of composites Yutaka Oya, Naofumi Umemoto, Tomonaga Okabe (Tohoku University)
	16:15	A Study of Microstructural Effects on the Mechanical Properties of Graphene Fibers Minseok Lee, Ho Jin Ryu(KAIST)
	16:30	Effect of Energy Director in Ultrasonic Welding on Welding Properties of c-FRTP Akio OHTANI (Kyoto Institute of Technology)
	16:45	High Quality Graphene Flakes Exfoliated from Ternary Graphite Intercalation Compound Jungmo Kim, Jin Kim, Hyewon Yoon, Minsu Park, Travis Novak, Azam Ashrafal, Jinho Lee, Seokwoo Jeon(KAIST)
	18:00	Banquet

[September 14 ,Thursday]

		Title	Presenter
2nd day	No. 6	Session Chair Prof. Tomohiro Yokozeki (University of Tokyo)	
	8:30	Plenary Lecture Now and Future of Composite Technologies in Korea	Ki-Soo Kim(Hongik University)
	9:15	Coffee break & Poster session	
2nd day	No. 7	Session Chair Prof. Akio Otani (Kyoto Institute of Technology) & Prof. Nam Hoon Kim (Chonbuk National University)	
	9:30	Prediction of CFRP-steel hybrid composites considering the interfacial adhesion	Jinhyeok Jang, Michang Sung, Sungjin Han, Wonbo Shim, Woong-Ryeol Yu(Seoul national university)
	9:45	Numerical Simulation of Interfacial Debonding of CFRP Under a High-Temperature Environment	Mio Sato, Jun Koyanagi (Tokyo University of Science), Yuki Kubota, Yuichi Ishida (JAXA)
	10:00	Multiscale Inverse Characterization of Fiber-Matrix Interfacial Properties of Fiber-Reinforced Composites	Hyungjun Lim, Sungwoo Jeong, Yeonghwan Kim, Gunjin Yun(Seoul National University)
	10:15	Effect of Axisymmetric Geometrical Imperfection on Buckling Loads of Lattice Structure	Atsushi Shitanaka, Takahira Aoki, Tomohiro Yokozeki (The University of Tokyo)
	10:30	Coffee break & Poster session	
2nd day	No. 8	Session Chair Prof. Chun-Gon Kim (KAIST) & Prof. Hitoshi Takagi (Tokushima University)	
	10:45	Mechanism for the Improvement of Ablation Resistance of Phenolic Composites Reinforced with Low Concentrations of Carbon Nanotubes	Sang Hyuk Yum, Gyu Hee Lee, Yong Chul Shin, Se jun Ko, Woo Il Lee(Seoul National University)
	11:00	Thermal response analysis of heat resistant CFRP and occurrence prediction of delamination	Kenta Shinba, Jun Koyanagi (Tokyo University of Science), Ken-ichi Hirai (IHI Aerospace), Yasuo Kogo (Tokyo University of Science)
	11:15	Protective Characteristics of Polyhedral Oligomeric Silsesquioxane from Low Earth Orbit Environment	Chunghyeon Choi, Yunho Kim, Sarath Kumar Sathish Kumar, Chun-Gon Kim(KAIST)
	11:30	Development of PANI-based Composites for Lightning Strike Protection	Tomohiro Yokozeki, Vipin Kumar (The University of Tokyo)
	11:45	Coffee break & Poster session	
2nd day	No. 9	Session Chair Prof. Jung Il Song (Changwon National University) & Prof. Jun Koyanagi (Tokyo University of Science)	
	12:00	Migration effect on tensile strength of a natural fiber twisted yarn	Yuuki Hironaka, Eri Yamasaki, Koichi Goda (Yamaguchi University)
	12:15	Fabrication of bio waste filled carbon reinforced composites by reinforcing rice husk powder and rice husk ash powder	Gibeop Nam, Jea Cheol Kim, Jung Il Song(Changwon National University)
	12:30	Microstructural Control in PVA/CNF Green Composites by Stretching Treatment	Hitoshi Takagi, Antonio N. Nakagaito, Yuya Sakaguchi (Tokushima University)
	12:45	Acceleration test of carbon fiber-reinforced shape memory polymer composites under vacuum and UV environment	Joon Hyeok Jang, Seok Bin Hong(Seoul National University), Jin-Gyun Kim(Korea Institute of Machinery & Materials), Nam Seo Goo(Konkuk University), Woong-Ryeol Yu(Seoul National University)
	13:00	Closing	

Poster Presentation			
		Title	Presenter
2nd day	P-1	Construction of Ag-Cu ₂ O Composites Supported on Reduced Graphene Oxide for the Visible Light Photocatalytic Activity	Kamaldeep, Chao Li, Sung Ho Kim, Nam Hoon Kim, Joong Hee Lee(Chonbuk National University)
	P-2	High Performance Electrocatalyst of Cu@Ag Core-shell Nanostructures Stabilized N-doped Graphene for Oxygen Reduction Reaction	Tran Duy Thanh, Nguyen Dinh Chuong, Hoa Van Hien, Nam Hoon Kim, Joong Hee Lee(Chonbuk National University)
	P-3	Introduction to Thermally Conductive Inorganic-Organic Composites Studied in Korea Electronic Technology Institute	Seong-Dae Park(Korea Electronics Technology Institute)
	P-4	Evaluation on the reproducibility of radial flow permeability experiment	Jihun Mun, Sungwook Joo, Seonghun Kwak(Gyeongbuk Hybrid Technology Institute), Kunyong Kim(Sewon Co.), Jinyong Lee(SeungWoo Co., Ltd.)
	P-5	Hypervelocity Impact Characteristics of Fabric and Compliant Composite	YunHo Kim, Chunghyeon Choi, Sarath Kumar Sathish Kumar, Chun-Gon Kim(KAIST)
	P-6	Synthesis of Copper/graphene Nanocomposites Using Non-oxidized Graphene Flakes with Non-covalent Functionalization	Jinho Lee, Jin Kim, Jungmo Kim, Hyewon Yoon, Minsu Park, Seokwoo Jeon(KAIST)
	P-7	Mechanical and Dynamic Characteristics of Heavy Load Roller Chain Insertion Pins	Chang Uk Kim, Byoung Jin Park, Jung Il Song (Changwon National University)
	P-8	Molecular Simulation on Effect of Introduction Site on Elastic Modulus of Long-chain PLA Mediated by Photodissociable Protecting Groups	Naoki Seto, Mototsugu Tanaka, Hiroshi Saito, Isao Kimpura (Kanazawa Institute of Technology)
	P-9	Numerical simulation for drop weight impact test to honeycomb sandwich panel.	Jun Koyanagi, Ryuta Kitamura, Shinji Ogihara (Tokyo University of Science)
	P-10	Effect of Pre-tension Control on Tensile Strength Perpendicular to Fiber Direction in Atmospheric-pressure-plasma-treated CF/PP T	Takahiro Kanda, Mototsugu Tanaka, Naoki Osawa, Hiroshi Saito, Manato Kanesaki, Satoshi Osawa (Kanazawa Institute of Technology)
	P-11	Monte-Carlo Simulation for Forming Blue Phase Liquid Crystal	Jun Koyanagi, Kazuki Murai, Hirokazu Furue (Tokyo University of Science)