

Dec. 1, 2021		
Room	A	B
9:00 -	Registration	
9:35 - 9:40	Opening address	
9:40 - 10:30	Plenary Lecture (PL-01) CFRP Applications for Vehicle Body Atsushi Mikuni (Toyota Motor Corporation)	
10:30 - 11:00	Coffee Break @Exhibition Room	
11:00 - 11:50	Plenary Lecture (PL-02) Production problems and technological development for CFRP Application in Automobiles Atsushi Mizutani (Nissan Motor Corporation)	
11:50 - 13:00	Lunch	
13:00 - 13:20	3D PRINT PATH GENERATION BASED ON PERIODIC PATTERN FORMATION SYSTEM Naruki Ichihara (Nihon University), Masahito Ueda	Student Session
13:20 - 13:40	ENHANCEMENT OF INJECTION MOLDING METHOD CONSIDERING DIMENSIONAL STABILITY Kana Sakon (Mitsubishi Heavy Industries, LTD.), Ryoji Okabe, Hitoshi Tamaki, Takuma Yamashita, Kosuke Ikeda	
13:40 - 14:00	VACCUM-ASSISTED PRESS FORMING FOR WOVEN Yuki Asano (Nihon University), Masahito Ueda	
14:00 - 14:20	NANOFIBER VEIL APPLIED IN TOUGHNESS ENHANCEMENT OF CFRTP Shi Mingjun (Gifu University), Takahashi Shinya, Takeno Akiyoshi, Nakai Asami	
14:20 - 14:40	PULTRUSION OF THERMOPLASTIC COMPOSITE USING PARTIALLY CONSOLIDATED YARNS Louis Laberge Lebel (Polytechnique Montreal, Gifu University), Kazuki Hyodo, Masaki Ohishi, Asmai Nakai	
14:40 - 15:10	Coffee Break @Exhibition Room	
15:10 - 15:30	STUDY ON THE EFFECTIVE THERMAL CONDUCTIVITY OF COPPER-PLATED CARBON FIBER REINFORCED ALUMINUM MATRIX COMPOSIT PROCESSED BY ACCUMULATIVE ROLL BONDING COMBINED WITH HOT-PRESSING Wenchuang Liu (Hiroshima University), Kenjiro Sugio, Ying Guo, Xingang Liu, Yujiao Ke, Gen Sasaki	
15:30 - 15:50	EFFECT OF COPPER-PLATED CARBON FIBER ORIENTATION DISTRIBUTION ON THERMAL ONDUCTIVITY OF FE MATRIX COMPOSITE Di Wu (Hiroshima University), Kenjiro Sugio, Yan Zhao, Lu Yang, Yujiao Ke, Gen Sasaki	
15:50 - 16:10	MICROSTRUCTURAL CLASSIFICATION OF UNMODIFIED AND STRONTIUM MODIFIED AL-SI-MG CASTING ALLOYS WITH MACHINE LEARNING TECHNIQUES Zixiang Qiu (Hiroshima University), Kenjiro Sugio, Gen Sasaki	
16:10 - 16:30	EFFECT OF ZINC CONTENT AND TEMPERATURE ON ICROSTRUCTURE, WETTABILITY BEHAVIOR OF MAGNESIUM ALLOY Kwangmo Park (Hiroshima University), Gen Sasaki, Kenjiro Sugio	

Dec. 2, 2021		
Room	A	B
9:00 -	Registration	
9:40 - 10:30	Plenary Lecture (PL-03) Will Shaffer (Boeing Japan)	
10:30 - 11:00	Coffee Break @Exhibition Room	

11:00 - 11:20	CHARACTERIZATION OF DAMAGE BEHAVIOR IN THINPLY COMPOSITES WITH VARIOUS PLY THICKNESS UNDER IN-PLANE TENSILE LOADING Xiawan Hua (The University of Tokyo), Ryoma Aoki, Yayoi Kobayashi, Ryo Higuchi, Tomohiro Yokozeki	INVESTIGATION OF HEAT RATE AND PERMEATION BETWEEN CARBON FIBER AND MATRIX RESIN OF TANKS IN FCEV Shinji Miyoshi (SOKEN, Inc.)
11:20 - 11:40	EVALUATION OF HEAT CONDUCTION PROPERTIES OF THERMOSET CFRP WITH DIFFERENT LAMINATE CONFIGURATIONS DURING COMBUSTION Ryota Shinohara (Kyoto University), Masaaki Nishikawa, Akihiko Ito, Naoki Matsuda, Masaki Hojo	ENERGY ABSORPTION PROPERTIES OF GFRP AND GFRTP CYLINDERS UNDER IMPACT LOAD Hsiangchi Fan (Nihon University), Hayato Abe, Kazuhiro Sakata, Norio Hirayama, Yoshio Aoki, Yuichi Mizushima, Kazunori Sano
11:40 - 12:00	FIBER KINKING OF UNIDIRECTIONAL CFRP WITH CLUSTERED FIBER ARRANGEMENT Takuya Takahashi (Tokyo Institute of Technology), Akira Todoroki, Masahito Ueda	INFLUENCE OF GAP/OVERLAP BY AFP ON THE MECHANICAL PROPERTIES OF THIN-PLY CFRP Sho Miyashita (JAXA), Yuichiro Aoki, Sunao Sugimoto, Toshiya Nakamura
12:00 - 12:20	FAILURE MODE TRANSITION IN ADHESIVELY BONDED CFRP JOINTS UNDER MIXED-MODE LOADING Ryo Wakayama (Nagoya University), Akinori Yoshimura, Masahiro Arai, Keita Goto	EFFECTIVENESS OF MULTISCALE ANALYSIS IN EVALUATING CRASHWORTHINESS OF UAM Masahiko Matsuhashi (The University of Tokyo, Skyward of Mobilities Inc. (SOM)), Ryo Higuchi, Tomohiro Yokozeki
12:20 - 13:20	Lunch	
13:20 - 14:10	Plenary Lecture (PL-04) Akimoto Uchikawa (Teijin limited)	
14:10 - 14:40	Coffee Break @Exhibition Room	
14:40 - 15:00	ANALYSIS OF ANISOTROPIC LAMB WAVES PROPAGATION IN COMPOSITE LAMINATES Lea A.C. Lecointre (The University of Tokyo), Fumiko Mori, Tomohiro Yokozeki, Naoki Hosoya, Shinichi Takeda	TESTING METHOD OF MECHANICAL PROPERTIES OF 3D PRINTED CFRP WITH A CURVED SECTION Hirohide Shiratori (Tokyo Institute of Technology), Akira Todoroki, Masahito Ueda, Ryosuke Matsuzaki, Yoshiyasu Hirano
15:00 - 15:20	NON-CONTACT AND NON-DESTRUCTIVE LAMB WAVE GENERATION IN COMPOSITES USING A SHOCK WAVE GENERATED BY LASER PLASMA Shota Tonegawa (Shibaura Institute of Technology), Masakatsu Mita, Lea A.C. Lecointre, Ryo Higuchi, Tomohiro Yokozeki, Shinichi Takeda, Naoki Hosoya	THE MOLDING TECHNOLOGY OF CFRTP 3DP Masayuki Okoshi (Gifu University), Masato Ueda
15:20 - 15:40	ULTRASONIC PROPAGATION CHARACTERISTICS OF GFRP MOLDED PLATES WITH AN UNCURED LAYER ON ONE SIDE Akihiro Wada (Osaka Sangyo University), Eiji Kitagawa	PULL-OUT LOAD OF INTERNAL THREAD PRINTED BY COMPOSITE AM Kohei Yoshida (Mitsubishi Heavy Industries, Ltd.), Kazuhiro Miura, Takeshi Fujita, Makoto Inomoto
15:40 - 16:00	IMPROVED ACTIVE THERMOGRAPHIC NONDESTRUCTIVE INSPECTION OF CFRPS USING CYCLIC HEATING AND FOURIER TRANSFORMATION Takuto Miura (Tokushima University), Masashi Ishikawa, Hideo Nishino, Takeo Kato, Tetsuya Ohtsuki	SIMULATION INTRODUCTION - MATERIAL, PROCESS AND EFFECT OF DEFECTS ON ADDITIVE MANUFACTURED PART PERFORMANCE Ryuichi Hirade (ADVANCED TECHNOLOGIES CO.,LTD.), Arshi Sagati
16:00 - 16:20	MONITORING OF IMPREGNATION PROCESS OF VARTM BY RAYLEIGH SCATTERING OPTICAL FIBER SENSORS Tatsuro Kosaka (Kochi University of Technology), Genko Fujioka	PROCESS INNOVATION: H2 COMPOSITE TANK DOME REINFORCEMENTS WITH FIBER PATCH PLACEMENT Florian Lenz (Cevotec GmbH, Fuji Industries Co. Ltd.)
16:20 - 16:40	Coffee Break @Exhibition Room	
16:40 - 17:30	Plenary Lecture (PL-05) Overview and critical comparison of various NonDestructive Testing (NDT) methods for inspection of composite components and 3D printed parts Wim VAN PAEPEGEM (Ghent University)	

Dec. 3, 2021

Room	A	B
9:00 -	Registration	
9:40 - 10:30	Plenary Lecture (PL-06) Innovative thermoplastics composite materials and manufacturing processes to realize the next-generation infrastructure systems Kiyoshi Uzawa (Kanazawa Institute of Technology)	
10:30 - 11:00	Coffee Break @Exhibition Room	
11:00 - 11:20	PREDICTION OF LONG-TERM CREEP AND FATIGUE STRENGTHS OF UNIDIRECTIONAL CFRP USING THERMOPLASTIC EPOXY RESIN AS MATRIX M. Nakada (Kanazawa Institute of Technology), Y. Miyano, Y. Morisawa, H. Nishida, Y. Hayashi, K. Uzawa	EFFECT OF RIGIDITY AND MASS DENSITY ON THE GENERATION CHARACTERISTICS OF THE PIEZOELECTRIC CYLINDRICAL SHELL WIND ENERGY HARVESTING FLAG Chisuzu Oda (Kindai University), Tsutomu Nishigaki
11:20 - 11:40	STATISTICAL LIFE PREDICTION OF CF/PP UD UNDER CREEP TENSION AND BENDING LOADS FROM VISCOELASTIC PROPERTIES OF MATRIX POLYMER Takeharu Isaki (Mitsui Chemicals, Inc.), Masayuki Nakada, Yasushi Miyano, Yoko Morisawa, Taiki Hirano, Kiyoshi Uzawa	SIMULATED LIGHTNING STRIKE INVESTIGATION OF CFRP COMPRISING A NOVEL CONDUCTIVE MATRIX Yu Zhou (The University of Tokyo), Tomohiro Yokozeki
11:40 - 12:00	INVESTIGATION OF PREFORM DEFORMATION AND PERMEABILITY CHANGE DURING COMPRESSION RESIN TRANSFER MOLDING Yoshihiro Aono (ESI Japan Ltd.), Takuya Suzuki, Katsuhiko Nunotani, Yuta Urushiyama, Kiyoshi Uzawa	MATERIAL DESIGN OF HEAT- AND IMPACT- RESISTANT PREPREG AS CARBON FIBER INTERMEDIATE MATERIAL Miki Horikawa (TEIJIN LIMITED), Takaya Suzuki, Toru Kaneko
12:00 - 13:00	Lunch	
13:00 - 13:20	EVALUATION OF BOND STRENGTH BETWEEN SOME FRP RODS AND CONCRETE Shinichi Miyazato (Kanazawa Institute of Technology), Atsushi Hokura, Hisai Ueda, Satoru Kobayashi	BRIDGE SECTION PRINT FOR 4D PRINTING OF NATURAL CONTINUOUS FIBER COMPOSITES Masafumi Kurihara (Tokyo University of Science), Thomas Fruleux, Antoine Le Duigou, Ryosuke Matsuzaki
13:20 - 13:40	INNOVATIVE WORKS IN RESIN TECHNOLOGY FOR FRP MATRIX Hirofumi Nishida (Kanazawa Institute of Technology), Kiyoshi Uzawa	X-RAY COMPUTED TOMOGRAPHY-BASED AUTOMATIC FIBER TRACKING OF UNIDIRECTIONAL CARBON FIBER REINFORCED PLASTIC BY DIGITAL IMAGE CORRELATION METHOD Shiryu Morita (Nihon University), Masahito Ueda
13:40 - 14:00	HIGH RATE MANUFACTURING OF THICK ORGANO-SHEET USING FIXED ROLLERS DOUBLE BELT PRESS IN COMBINATION WITH INDUCTION HEATING Osuke Ishida (Kanazawa Institute of Technology), Junichi Kitada, Kiyoshi Uzawa	
14:00 - 14:30	Coffee Break @Exhibition Room	
14:30 - 15:20	Plenary Lecture (PL-07) 3D-printed composite lattice structures: benefits and challenges Fedor Antonov (ANISOPRINT)	
15:20 - 15:50	Break	
15:50 - 16:10	HIGH TEMPERATURE ENVIRONMENT TEST FOR LARGE SCALE PANEL STRUCTURE FOR FIRE RESISTANCE EVALUATION Masanori Nakajima (Kanazawa Institute of Technology), Kiyoshi Uzawa, Katsuhiko Nunotani, Yuya Takaiwa, Satoshi Nagoh	
16:10 - 16:30	EFFECT OF MOLDING TIME ON MECHANICAL PROPERTIES OF CFRTP ORGANO-SHEETS WITH MATRIX RESIN OF IN-SITU POLYMERIZABLE THERMOPLASTIC EPOXY Wataru Okumura (Industrial Research Institute of Ishikawa), Hirofumi Nishida, Nunotani Katsuhiko, Etsuro Sugimata, Hiroyuki Hasebe, Daisuke Mori, Kiyoshi Uzawa	
16:30 - 16:50	STUDY OF MELT VISCOSITY OF DISCONTINUOUS FIBER THERMOPLASTIC CFRP DURING PRESS MOLDING Takehiro Shirai (Kanazawa Institute of Technology), Kiyoshi Uzawa	

Student Session

Students have 5min presentations in the Room B on December 1.

The Student poster session will also be held in Exhibition Room on the same day.

13:00 - 13:55	S01	STRUCTURAL PERFORMANCE EVALUATION OF WOODEN FRAME WITH CFRTP REINFORCEMENT H. Takizawa, H. Matsumoto, N. Sakurai, K. Uzawa, Y. Takaiwa
	S02	EFFECT OF RESIN VISCOELASTICITY ON FATIGUE STRENGTH OF UNIDIRECTIONAL CFRP UNDER BENDING LOAD Y. Yoshikoshi, M. Nakada, Y. Miyano
	S03	EFFECT OF WATER ABSORPTION ON THE TENSILE STRENGTH OF CF/PP UD-TAPE T. Nonaka, M. Nakada, Y. Miyano, Y. Morisawa, T. Isaki, T. Hirano, K. Uzawa
	S04	EVALUATION OF CORNER STRENGTH OF A CARBON FIBER REINFORCED POLYAMIDE FABRICATED BY HOT-PRESS MOULDING OF CHOPPED TAPES Y. Goto, M. Ueda
	S05	INVESTIGATION OF FRACTURE BEHAVIOR OF 3D PRINTED MATERIALS WITH VARIOUS INTERLAYER STRENGTHS R. Nakao, K. Iizuka, S. Yoneyama
	S06	SIMULATION OF CFRTP-SMC COMPRESSION MOLDING: PARAMETER SETTING AND MODULUS VALIDATION Z. Zhao, Y. Zhang, J. Takahashi
	S07	PREDICTION OF TENSILE STRENGTH DISTRIBUTION OF CFRTP-SMC BY MONTE CARLO SIMULATION R. Xu, H. Wei, Y. Wan, J. Takahashi
	S08	PRELOAD RELAXATION IN BOLTED CARBON FIBER REINFORCED THERMOPLASTICS JOINTS X. Tong, L. Meng, B. Xiao, Y. Wan, J. Takahashi
	S09	THE EFFECT OF CF/PA TAPE QUALITY ON BENDING PROPERTY OF THE LAMINATES FABRICATED BY AUTOMATED TAPE PLACEMENT S. Yamamoto, M. Ueda, T. Sugawara
	S10	PREDICTION OF TENSILE FAILURE OF CARBON FIBER MAT REINFORCED THERMOPLASTICS BY NUMERICAL ANALYSIS Q. Gao, H. Wei, Y. Wan, J. Takahashi
	S11	IN-LINE REMOVAL METHOD OF UNREACTED MONOMER FROM CFRTP USING IN-SITU POLYMERIZED PA6 T. Yamashina, A. Hirabayashi, N. Hirayama, M. Terada, Y. Kimoto
13:55 - 14:05		Company Introduction 1 (in Japanese)
14:05 - 14:15		Company Introduction 2 (in Japanese)
14:15 - 14:55		Coffee Break/Student Poster Session @Exhibition Room
14:55 - 15:05		Company Introduction 3 (in Japanese)
15:05 - 16:05	S12	MULTI-TIMESCALE SIMULATIONS OF ULTRASONIC WELDING FOR CFRP USING ENERGY DIRECTOR M. Takamura, K. Uehara, S. Takeda, J. Koyaangi
	S13	COMPARISON OF ENTROPY VALUES OBTAINED FROM MECHANICAL AND THERMAL MEASUREMENTS AND MOLECULAR DYNAMICS SIMULATION N. Takase, J. Koyanagi, T. Sakai
	S14	FUNDAMENTAL STUDY ON ELECTROMAGNETIC INDUCTION TESTING WITH DRIVER FIELD LENS (DFL) TO DETECT CRACKS IN GFRP AND IDENTIFY THE W. Matsunaga, K. Mizukami, Y. Mizutani, A. Todoroki
	S15	DEVELOPMENT OF HIGH ACCURATE EFPI STRAIN SENSORS FOR MEASURING THERMAL STRAIN OF CFRP A. Itaya, T. Kosaka, Y. Tanaka
	S16	IMPROVEMENT OF MEASUREMENT ACCURACY OF FRESNEL TYPE OPTICAL FIBER SENSOR BY PATH DESIGN USING EMBEDDING LOSS PREDICTION

	T. Ohnishi, T. Kosaka, G. Fujioka
S17	WAVELET ANALYSIS OF AE INDUCED BY FIBER BREAKAGE OF SINGLE FIBER COMPOSITE K. Ishihara, T. Kosaka
S18	CURE AND STRUCTURAL HEALTH MONITORING OF CFRP LAMINATE USING MULTI-FUNCTIONAL TILTED-FBG SENSOR S. Fujii, M. Kikuchi, S. Takeda, T. Ogasawara
S19	IDENTIFICATION AND PREDICTION OF NONLINEAR MATERIAL BEHAVIOR FOR UNIDIRECTIONAL CFRTP USING NUMERICAL MATERIAL TEST M. Somemiya, N. Hirayama, K. Yamamoto, S. Matsubara, K. Terada
S20	MECHANICAL PROPERTIES AND FRACTURE BEHAVIOR OF C-FRTP HYBRID JOINT USING ULTRASONIC WELDING PROCESS S. Nakasuji, A. Ohtani
S21	CRACK RESTRAINT OF CFRTP PIPE IN HEATING TAPE WRAPPING MOLDINGS T. Mutoh, A. Nakai, A. Ohtani
S22	APPLICATION OF FATIGUE DAMAGE PARAMETERS TO THE EVALUATION OF CRACK PROPAGATION ON CFRP LAMINATES BY HP-RTM S. Okada, A. Nakai
S23	CONTROL OF FIBER ORIENTATION ON C-FRTP BY TFP Taiga Iwata, Asami Nakai
16:05 - 16:15	Company Introduction 4 (in Japanese)
16:15 - 16:25	Company Introduction 5 (in Japanese)
16:25 - 17:05	Coffee Break/Student Poster Session @Exhibition Room