JISSE-17 Program

JISSE-17 Conference : Tokyo Big Site, West Exhibition Halls Atrium JISSE-17 Exhibition : Tokyo Big Site, West Exhibition Halls Atrium SAMPE Japan Exhibition 2021 : Tokyo Big Site, West Exhibition Hall

	Dec. 1, 2021				
Room		Α	В	West Exhibition Hall	
9:00 -		Regis	tration		
9:35	9:40	Opening	address		
		Plenary Lecture (PL-01) Chair: M	lasahito Ueda, Chikara Kawamura		
9:40 -	10:30		ations for Vehicle Body ta Motor Corporation)		
10:30 -	11:00	Coffee Break @ JISSE-17 Exhibition I			
		Plenary Lecture (PL-02) Chair: M	lasahito Ueda, Chikara Kawamura		
11:00 -	11:50		levelopment for CFRP Application in Automobiles an Motor Corporation)		
11:50 -	13:00	Lu	nch		
		Thermoplastic Composites Chair: Akiko Hirabayashi	Student Session		
13:00 -	13:20	(1A-01) 3D PRINT PATH GENERATION BASED ON PERIODIC PATTERN FORMATION SYSTEM Naruki Ichihara (Nihon University), Masahito Ueda			
13:20 -	13:40	(1A-02) ENHANCEMENT OF INJECTION MOLDING METHOD CONSIDERING DIMENSIONAL STABILITY Kana Sakon (Mitsubishi Heavy Industries, LTD.), Ryoji Okabe, Hitoshi Tamaki, Takuma Yamashita, Kosuke Ikeda	13:00 - 13:55 Student Presentation (S01-S11)		
13:40 -	14:00	(1A-03) VACUUM-ASSISTED PRESS FORMING FOR WOVEN CARBON FIBER REINFORCED PLASTICS Yuki Asano (Nihon University), Masahito Ueda	13:55 - 14:05 Company Introduction 1 Teijin limited (in Japanese)		
14:00 -	14:20	(1A-04) NANOFIBER VEIL APPLIED IN TOUGHNESS ENHANCEMENT OF CFRTP Shi Mingjun (Gifu University), Takahashi Shinya, Takeno Akiyoshi, Nakai Asami	14:05 - 14:15 Company Introduction 2 Maruhachi Co., Ltd (in Japanese)	10:00 - 17:00 SAMPE Japan Exhibition 2021	
14:20 -	14:40	(1A-05) PULTRUSION OF THERMOPLASTIC COMPOSITE USING PARTIALLY CONSOLIDATED YARNS Louis Laberge Lebel (Polytechnique Montreal, Gifu University), Kazuki Hyodo, Masaki Ohishi, Asmai Nakai	14:15 - 14:55 Coffee Break/Student Poster Session @JISSE-17 Exhibition Room 14:55 - 15:05 Company Introduction 3		
14:40 -	15:10	(in West Exhibition Halls Atrium)	Fudow Co., Ltd (in Japanese) 15:05 - 16:10 Student Presentation (S12-S24)		
		MMC, CMC, C/C, High-Temperature Applications Chair: Louis Laberge Lebel	` ′		
15:10 -	15:30	(1A-06) 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	16:10 - 16:20 Company Introduction 4 UCHIDA Co., Ltd. (in Japanese) 16:20 - 16:30 Company Introduction 5 IHI Corporation (in Japanese)		
15:30 -	15:50	(1A-07) MICROSTRUCTURAL CLASSIFICATION OF UNMODIFIED AND STRONTIUM MODIFIED AL-SI-MG CASTING ALLOYS WITH MACHINE LEARNING TECHNIQUES Zixiang Qiu (Hiroshima University), Kenjiro Sugio, Gen Sasaki	, , , , , , , , , , , , , , , , , , , ,		
15:50 -	16:10	(1A-08) EFFECT OF ZINC CONTENT AND TEMPERATURE ON ICROSTRUCTURE, WETTABILITY BEHAVIOR OF MAGNESIUM ALLOY Kwangmo Park (Hiroshima University), Gen Sasaki, Kenjiro Sugio			

9:00 -	n	A	В	VAV = =4 Faula :1a :4: = == 1 1 = 11	
9:00 -			D	West Exhibition Hall	
		Regis	tration		
		Plenary Lecture (PL-03) Chair: Tetsuo Yasuoka			
9:40 -	10:30	(PL-03) Composite R&E Dylan Jones (
10:30 -	11:00	Coffee Break @ JISSE-17 Exhibition I	Room (in West Exhibition Halls Atrium)		
		Numerical Modeling and Structural Design Chair: Ryo Higuchi	Automotive and Aerospace Application Chair: Tatsuro Kosaka		
11:00 -	11:20	(2A-01) 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	(2B-01) INVESTIGATION OF HEAT RATE AND PERMEATION BETWEEN CARBON FIBER AND MATRIX RESIN OF TANKS IN FCEV Shinji Miyoshi (SOKEN, Inc.)		
11:20 -	11:40	(2A-02) 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	(2B-02) 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	(2A-03) FIBER KINKING OF UNIDIRECTIONAL CFRP WITH	(2B-03) INFLUENCE OF GAP/OVERLAP BY AFP ON THE MECHANICAL PRPOERTIES OF THIN-PLY CFRP Sho Miyashita (JAXA), Yuichiro Aoki, Sunao Sugimoto, Toshiya Nakamura		
12:00 -	12:20	(2A-04) FAILURE MODE TRANSITION IN ADHESIVELY BONDED CFRP JOINTS UNDER MIXED-MODE LOADING Ryo Wakayama (Nagoya University), Akinori Yoshimura, Masahiro Arai, Keita Goto	(2B-04) 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	Lu	nch		
		Plenary Lecture (PL-04			
13:20 -	14:10		in automobile parts aiming at reducing environmental load (Teijin limited)		
14:10 -	14:40	Coffee Break @ JISSE-17 Exhibition Room (in West Exhibition Halls Atrium)		10:00 - 17:00	
		Structural health monitoring, Nondestructive Evaluation Chair: Akihisa Tabata	Additive manufacturing Chair: Keisuke lizuka	SAMPE Japan Exhibition 2021	
14:40 -	15:00	(2A-05) 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	(2B-05) 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	(2A-06) NON-CONTACT AND NON-DESTRUCTIVE LAMB WAVE GENERATION IN COMPOSITES USING A SHOCK WAVE GENARATED BY LASER PLASMA Shota Tonegawa (Shibaura Institute of Technology), Masakatsu Mita, Lea A.C. Lecointre, Ryo Higuchi, Tomohiro Yokozeki, Shin-ichi Takeda, Naoki Hosoya	(2B-06) THE MOLDING TECHNOLOGY OF CFRTP 3DP Masayuki Okoshi (Gifu University), Masahito Ueda		
15:20 -	15:40	(2A-07) ULTRASONIC PROPAGATION CHARACTERISTICS OF GFRP MOLDED PLATES WITH AN UNCURED LAYER ON ONE SID Akihiro Wada (Osaka Sangyo University), Eiji Kitagawa	(28-07) 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	(2A-08) 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	(2B-08) 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	(2A-09) MONITORING OF IMPREGNATION PROCESS OF VARTM BY RAYLEIGH SCATTERING OPTICAL FIBER SENSORS Tatsuro Kosaka (Kochi University of Technology), Genko Fujioka	(2B-09) 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 @ JISSE-17 Exhibition Room (in West Exhibition Halls Atrium)			
		Plenary Lecture (PL-05)	Chair: Tomohiro Yokozeki		
16:40 -	17:30	and 3D pr	ve Testing (NDT) methods for inspection of composite components inted parts M (Ghent University)		

Dec. 3, 2021			
Room	A	В	West Exhibition Hall
9:00 -	Regis	stration	
	Plenary Lecture (PL-06)	Chair: Akinori Yoshimura	
9:40 - 10:30		nufacturing processes to realize the next-generation infrastructure tems	
9.40 - 10.30		va Institute of Technology)	
10:30 - 11:00	Coffee Break @ JISSE-17 Exhibition	Room (in West Exhibition Halls Atrium)	
	KIT-COI Session (I) Chair: Kiyoshi Uzawa	Polymer Matrix Composites (I) Chair: Ryosuke Matsuzaki	
11:00 - 11:20	(3A-01) 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	CHAIL TYPESTATE OF THE PIEZOELECTRIC CYLINDRICAL SHELL WIND ENERGY HARVESTING FLAG Chisuzu Oda (Kindai University), Tsutomu Nishigaki	
11:20 - 11:40	(3A-02) 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	(3B-02) SIMULATED LIGHTNING STRIKE INVESTIGATION OF CFRP COMPRISING A NOVEL CONDUCTIVE MATRIX Yu Zhou (The University of Tokyo), Tomohiro Yokozeki	10:00 - 17:00 SAMPE Japan Exhibition 2021
11:40 - 12:00	(3A-03) 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	(3B-03) 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	Lu	ınch	1
	KIT-COI Session (II) Chair: Kazuhiro Sakata	Polymer Matrix Composites (II) Chair: Yu Zhou	
13:00 - 13:20	(3A-04) EVALUATION OF BOND STRENGTH BETWEEN SOME	(3B-04) 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	(3A-05) INNOVATIVE WORKS IN RESIN TECHNOLOGY FOR FRP MATRIX Hirofumi Nishida (Kanazawa Institute of Technology), Kiyoshi Uzawa	(3B-05) 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	(3A-06) 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			
	Plenary Lecture (PL-07) Chair: Yuichiro Aoki		
14:30 - 15:20	(PL-07) 3D-printed composite lattice structures: benefits and challenges Fedor Antonov (ANISOPRINT) 13:00-17:00 IHI/SAMPE Japan		
15:20 - 15:50	Break Stu		Student Bridge Contest
15:50 - 16:10	KIT-COI Session (III) Chair: Akio Ohtani (3A-07) 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	(3A-08) EFFECT OF MOLDING TIME ON MECHANICAL PROPERTIES OF CFRTP ORGANO-SHEETS WITH MATRIX		
16:30 - 16:50	(3A-09) 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		
	S02	H. Takizawa, H. Matsumoto, N. Sakurai, K. Uzawa, Y. Takaiwa 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		
	004	CHOPPED TAPES Y. Goto, M. Ueda		
	S05	INVESTIGATION OF FRACTURE BEHAVIOR OF 3D PRINTED MATERIALS WITH VARIOUS INTERLAYER STRENGTHS		
	S06	R. Nakao, K. Iizuka, S. Yoneyama SIMULATION OF CFRTP-SMC COMPRESSION MOLDING: PARAMATER SETTING AND MODULUS VALIDATION		
		Z. Zhao, Y. Zhang, J. Takahashi		
	S07	PREDICTION OF TENSILE STRENGTH DISTRIBUTION OF CFRTP-SMC BY MONTE CARLO SIMULATION		
	S08	R. Xu, H. Wei, Y. Wan, J. Takahashi 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		
	S10	S. Yamamoto, M. Ueda, T. Sugawara 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		
10.55 11.05		T. Yamashina, A. Hirabayashi, N. Hirayama, M. Terada, Y. Kimoto Company Introduction 1		
13:55 - 14:05		Teijin limited (in Japanese)		
14:05 - 14:15		Company Introduction 2		
44.45 44.55		Maruhachi Co., Ltd. (in Japanese) Coffee Break/Student Poster Session		
14:15 - 14:55		@JISSE-17 Exhibition Room		
14:55 - 15:05		Company Introduction 3 Fudow Co., Ltd. (in Japanese)		
15:05 - 16:10	S12	MULTI-TIMESCALE SIMULATIONS OF ULTRASONIC WELDING FOR CFRP USING ENERGY DIRECTOR		
15.05 - 16.10		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 DIRECTIONS		
	S15	W. Matsunaga, K. Mizukami, Y. Mizutani, A. Todoroki DEVELOPMENT OF HIGH ACCURATE EFPI STRAIN SENSORS FOR MEASURING THERMAL STRAIN OF CFRP		
	010	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		
	S18	K. Ishihara, T. Kosaka CURE AND STRUCTUAL 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		
	S21	S. Nakasuji, A. Ohtani CRACK RESTRAINT OF CFRTP PIPE IN HEATING TAPE WRAPPING MOLDINGS		
	02.	T. Mutoh, A. Nakai, A. Ohtani		
	S22	APPLICATION OF FATIGUE DAMAGE PARAMETERS TO THE EVALUATION OF CRACK PROPAGATION ON CFRP LAMINATES BY HP-RTM		
	S23	S. Okada, A. Nakai CONTROL OF FIBER ORIENTATION ON C-FRTP BY TFP		
		T. Iwata, A. Nakai		
	S24	REDUCTION OF FIBER FRICTION DURING MOLDING OF CFRTP PIPES WITH HIGH ELASTIC MODULUS		
<u></u>		K. Yamaguchi, A. Nakai Company Introduction 4		
16:10 - 16:20		UCHIDA Co., Ltd. (in Japanese)		
16:20 - 16:30		Company Introduction 5 IHI Corporation (in Japanese)		
16:30 - 17:10		Coffee Break/Student Poster Session		
10.30 - 17.10		@JISSE-17 Exhibition Room		