November 28, Wednesday

November 28, Wednesday

Time	Room 605	Room 606	Room 607	Room 608	Room 609	Room 610	Room 604	Time
	AEROSPACE-1	SIT Sponsored Session-1	NUMERICAL MODELING-1	POLYMER MATRIX COMPOSITES-1	SMART MATERIALS-1	NANO-COMPOSITES-1	BASIC TUTORIAL SEMINAR-1	
	Chair: Y. Yamaguchi and P. Feraboli	Chair: T. Tanomoto and Y. W. Mai	Chair: M. Kameyama and Y. Aoki	Chair: T. Yamamoto and S. Ogihara	Chair: H. Asanuma and N. Ghasemi-Nejhad	Chair: T. Ogasawara and JK. Park	Chair: H. Hatta	
9:30	I oward the Development of a Standard for	Opening Address for SIT Sponsored Session	Behavior of an Axially Compressed Composite	Effect of Strain Rate on Mechanical Behavior	Development of Multifunctional Structural	Silane Modified MWCN1/ Polyimide	Fundamental Composite Design and	9:30
9.40	Composite Materials (Keynote) 40min.	Active Sensor Network for Damage	Y. Aoki (JAXA)	H. Ogata (Tokyo University of Science)	Processing (Invited) 20 min.	Mechanical and Electrical Properties	rabilitation Seminal-1 (Separate Fee)	9.40
0.10	P. Feraboli (University of Washington)	Assessment in Composite Structures			H. Asanuma (Chiba University)	(Keynote) 30 min.		0.10
9:50	X. Xiao (General Motors Corporation) M. Rassaian (Boeing Phantom Works)	L. Ye (The University of Sydney)	Stress Analysis for Composite Laminates with	Evaluation of Interfacial Strength in a Glass	NASA Langley's Research and Development	C.C.M. Ma (National Tsing Hua University, Taiwan)		9:50
10.00	·····	New Thermoelectric Oxide Materials and	Method	Specimen	Aerospace Applications (Kevnote) 40 min.	Mechanical Properties of Carbon Fiber /		10.00
		Electronic Structures	S. Yashiro (Ehime University)	Y. Sakamoto (Tokyo University of Science)	Robert Bryant (NASA Langley Research	Fullerene-dispersed Epoxy Composites		
10:10	Topics of R&D on Advanced Composite	S. Sugihara (Shonan Institute of Technology)	Crack Analysis of Incompressible Elastic	Mechanical Property of ABS Resin Molded at Recom Tomporature	Center)	1. Ogasawara (JAXA)		10:10
10:20	Y. Yamaguchi (KYC-Japan)	Piezoelectric Composites and Their	D. Itoh (Sophia University)	N. Kunikyo (Tokai University)		Dimensional Effect of Exfoliated Graphite		10:20
		Applications, K. Uchino (The Pennsylvania State University)				Nanoplatelets on Mechanical Properties of Carbon Fiber Reinforced Phenolic		
10:30	R. Shao (Graf Tech International Ltd.)		A Numerical Study on Compressive Strength Reduction due to an Impact Damage	CFRP Laminated Plate Using New Test	Applications (Invited) 30 min.	Nanocomposites		10:30
10:10		Dialactria and Electromochaical Proportion of	H. Suemasu (Sophia University)	Fixture	Thomas P. Daue (Smart Material Corp.)	JK. Park (Agengy for Defence Development, Conductive Properties of Unidirectionally		40:40
10:40		Ba(ZrxTi1-x)O3 Ceramics Prepared by Spark		T. Takashima (Nihon University)		Aligned Carbon Nanofiber/Epoxy Composite		10:40
10:50	Short Break	Plasma Sintering	Short	Break		T. Chiba (Shizuoka University)		10:50
44.00	chort broat	H. Maiwa (Shonan Institute of Technology)	China	Diodak	See Left (Deem 605)			44.00
11:00	Greeting (Room 605)				See Lent (Koom 605)			
11:10-	PL-1 (Room 605) Technologies Contributio	n to Dassault Aviation Business Jets	4-		See Left (Room 605)			11:10-
12:00	Serge Denus (Dassault Aviation, President	SAMPE Europe) Chair. 1. Tanimo	10					12:00
12.00-		Lunch	Break			Lunch Break		12.00-
13.00	AEROSPACE-2	SIT Sponsored Session-2	NUMERICAL MODELING-2	POLYMER MATRIX COMPOSITES-2	SMART MATERIALS-2	NANO-COMPOSITES-2	BASIC TUTORIAL SEMINAR-2	15.00
	Chair L. J. Cohen and R. Shao	Chair: K. Uchino and L. Ye	Chair: H. Suemasu and S. Yashiro	Chair: Yi Xiao and Chih Chang	Chair: Robert Bryant and Sontinee Aimmanee	Chair: C.C.M. Ma and T. Yokozeki	Chair: H. Hatta	
13:00	FBG Sensors for Thermo-Vacuum and	Biodegradable Resin Reinforced with Non-	Numerical Simulation for Fatigue Damage	An Experimental Study on the Tensile	Development of Smart Composites and	Interlaminar Fracture Toughness of CNT	Fundamental Composite Design and	13:00
	Vibration Tests of Space Structures (Invited)	Vegetable Fibres - A Novel Method to	Progress in CFRP Cross-ply Laminates Using	Mechanical Properties of Hybrid C/GFRP	Nanocomposites at Hawaii Smart Composites	Dispersed CFRP Manufactured by VARTM	Fabrication Seminar-2 (Separate Fee)	
13:10	20 min. A. Paolozzi (Sapienza, Univ. of Rome)	T. Wittek (Shonan Institute of Technology.	T. Yamaguchi (Tohoku University)	Temperatures	40 min.	1.Nakata (Kanazawa Institute of Technology)		13:10
		Japan)		Shen-Ghu Cao (Ibaraki University))	Mehrdad N. Ghasemi-Nejhad (University of			
13:20	Ultrasonic Moitoring System for Real-time	Improving the Flame Retardancy of Polymer/Clay Nanocomposite	Impact Force Identification of Composite	Toughening Property Evaluation for Wind	Hawaii at Manoa)	Interfacial Properties of Nano Composites		13:20
40.00	Bonded Structures	Y. W. Mai (The University of Sydney)	S. Atobe (Tohoku University)	Chih Chang (Huntsman Advanced Materials)		F. Deng (The University of Tokyo)		40.00
13:30	K. Natori (The University of Tokyo)							13:30
13:40	Ultra Low OutgassingTM Silicones Materials	Application of Keratin Protein to Composite	Panel Flutter Analysis of Delaminated Plates	Effect of Environmental Temperature on	Piezospectroscopic Evaluation of Intergrowth	Mechanical Properties of Unidirectional and	+	13:40
	Bill Riegler (NuSil Technology LLC)	Materials	M. Kameyama (Tohoku University)	Tensile Strength for Notched Plate of a Short	Ferroelectric Ceramic by Micro-Probe Raman	Multidirectional CFRP Laminates Using		
13:50		N. Ikuta (Shohan Institute of Technology)		T. Yamamoto (Fukuoka University)	Wan-Yin Ge (Kvoto Institute of Technology)	T. Yokozeki (The University of Tokyo)		13:50
14:00	Design for Affordability (Keynote) 30 min.	High Performance Thermoplastic	Multiple Core Sandwich Composites	Post-Impact Fatigue Behavior of CFRP	A Study of Material Nonlinearities of a	Novel Heat-Directed Composites by	-	14:00
	L. J. Cohen (HITCO CARBON	Nanocomposites for Extreme Mechanical	Optimization for Improving the Impact	Laminates for Marine Use	Piezoelectric Material in Laminated	Functionally Dispersed Carbon Nanotubes		
14:10	COMPOSITES)	Loads F. Haupert (Institut für Verbundwerkstoffe	Benavior Ferrero Laura (DIASP - Politecnico di Torino)	N. Ikeda (Kanazawa Institute of Technolgy)	Sontipee Aimmanee (King Mongkut's	Alv-Hassan S. Mohamed (Kyoto Institute of		14:10
		GmbH)			University of Technology Thonburi)	Technology)		L
14:20		Permeability Behavior Modeling Considering	Cottos	Prost		Colleg	Prost	14:20
14:30	Coffee Break	W. I. Lee (Seoul National University)	Cones	e Dieak	Coffee Break	Break Coffee Break		14:30
14:40-	PL-2 (Room 605) Novel Nanocomposites for	2 (Room 605) Novel Nanocomposites for Bone Regeneration See Left (Roc			See Left (Room 605)	•		14:40-
15:30	Anthoni P. Tomsia (Lawrence Berkeley Nat	tional Laboratory) Chair: T. Tanimo	oto					15:30
15:30-	SL-1 (Room 605) Airbus Structure Technol Bruno Beral (Airbus) Chair: N. T.	ogy: Next Steps and Vision			See Left (Room 605)			15:30-
16:10		Short	Break			Short Break		16.10
		SIT Sponsored Poster Session	Poster Session-1	Poster Session-2	Commercial Products Session-1	Commercial Products Session-2		
			Chair: S. Yashiro	Chair: Y. Okabe	Chair: T. Ozaki	Chair: G. Kimura		1
16:20-	/	(SIT-P1) Thermoelectric Properties of FeSi2			Fiberforge™ – A leader of in Thermoplastic	Properties and application of Triaxial Woven		16:20
17:00	/	using Rutile- Litanium Oxide Y. Igarashi (Shonan Institute of Technology)			Processing Technology	Sakase Adtech, Co. Ltd.	/	
		(SIT-P2) Adsorption and Filtration	16:20-17:00 Short Oral Presentation by Poster	16:20-17:00 Short Oral Presentation by Poster	Kyokuto Boeki Kaisha, LTD.			
		Characteristics of Commercial Dialyzers under Litrafiltration	Presentators	Presentators	What is the Laser Resin Welding as Secondary Elaboration of Laser	Tools "GENESIS"		16:30
		N. Tomisawa (Shonan Institute of	(From PS-P1 to PS-P14)	(From PS-P14 to PS-P28)	Resin Welding ?	DI SQUARE Corporation		
		Technology) (SIT D2) Descrive Demoins of Interlactual	2 min. for each power point presentation (3 pages at maximum, no movie, without	2 min. for each power point presentation (3 pages at maximum, no movie, without	Hakuto Co.,Ltd. Mixing and Deforming Process on Planetary	Small Wind Turbine: GHDWT10kW		16:40
		CFRP/Piezo-Ceramic Composite Beams	Q&A)	Q&A)	Mixer	Composite Structures & QTW-UAV for All CF		10.40
		T. Tanimoto (Shonan Institute of Technology)	See the List of Posters at the end of the	See the List of Posters at the and of the	Thinky Corporation	Composite Structure		
		Properties of CFRP laminate with Dispersed	program	program	Efforts for Industrialization of Advanced	Smart Mechanical Material Systems Having	1 /	16:50
		Carbon Nano-Particles Surface Layers			SiC/SiC Composites	Functions Such as Sensing and Actuation		
	/	 I animoto (Shonan Institute of Technology) (SIT-P5) Visualization Study of Buovancy- 			Co. Ltd.	University		L
17:00-		Driven Exchange Flow			Introduction on Materials Supplied by Ishimoto			17:00
17:40		H. Horiuchi (Shonan Institute of Technology) (SIT-P6) Thermoelectricity of (Fe1-y Tix)2O3	17:00-17:40	17:00-17:00	General Plastics, and J. D. Lincoln Materials			
	/	R. Kameya (Shonan Institute of Technology)	Poster Q&A Period	Poster Q&A Period	Ishimoto International Inc.	Discussion Period (40 min.)		
	/	(SIT-P7) Enhancement of the Mobility of a	posters for discussion)	posters for discussion)	Discussion Period (30 min.)			17:10
	/	T. Uchida (Shonan Institute of Technology)			Discussion Fende (50 mill.)		\boldsymbol{V}	17:30
17:40			•	•			*	17:40

November 29, Thursday

November 29, Thursday

Time	Room 605	Room 606	Room 607	Room 608	Room 609	Room 610	Room 604	
	AEROSPACE-3	SIT Sponsored Session-3	SHM/NDE-1	POLYMER MATRIX COMPOSITES-3	SMART MATERIALS-3	AFOSR/AOARD Sponsored Session-1	MMC, CMC, C/C, HT Appl-1	
	Chair: Y. Nagao and A. Paolozzi	Chair: K. Friedrich and W. I. Lee	Chair: Y. Shimamura and B. Wang	Chair: S. Bandoh and Nak-Sam Choi	Chair: Y. Watanabe and M. Enoki	Chair: Y. Miyano	Chair: S. Sasaki and T. Weissgaerber	
9:20	A-VaRTM Technology Application on Primary Aircraft Structures <u>(Keynote)</u> 30min. Y. Komori (Mitsubishi Heavy Industries, Ltd.)	On The Wear Behavior of Metal- and Ceramic-Based Composites K. Friedrich (University of Kaiserslautern)	Detection of Damage in CFRP Laminates Using the Eddy Current Method with Probe Inducing Uniform Electric Current	Design of Fiber Orientation and Mechanical Properties of Rectangular Braided Composite Pipe	Development of High Performance Type Active Laminates T. Nakata (Chiba University)	Composites Design Tutorial Stephen W. Tsai (Stanford University)	Materials for Thermal Management of Electronic Devices (<i>Invited</i>) 20 min. Thomas Weissgaerber (Fraunhofer-Institute	9:20
9.50			T. Yasuoka (Tokyo Institute of Technology)	H. Nishimoto (Kyoto Institute of Technology)			IFAM Dresden, Germany)	9.30
9:40		Smart Textles in Well-being and Ubiquitous Era	Finite Element Study of Electric Potential Technique for Delamination Identification in	Mechanical Properties of Fiber-Hybrid I- shaped Braided Composite	Effect of Variable Amplitude Loading on Characteristics of Smart Stress Memory Patch	A Micromechanics Square Unit Cell Model with an Octahedral Fiber for Continuous Fiber	A New Insight into Polarized Raman Piezo- spectroscopy of Silicon Single-crystals: I,	9:40
9:50	Low Cost Composite Wing Structure Manufacturing Technology Development	T. J. Kang (Seoul National University)	Quasi-isotropic CFRP Laminates M. Ueda (Nihon University)	M. Shinokubo (Marui-Orimono.Co)	Y. Fujino (The University of Tokyo)	Reinforced Composites Sung Kyu Ha (Hanyang University, Ansan)	Theory Deluca Marco (Kyoto Institute of Technology)	9:50
10:00	Program in JAXA (Status Report) Y. Nagao (JAXA)	Filament Wound Cylinders with Flexible/Rigid Layerwise Hybrid Resins	Structural Health Monitoring System Using Directional Piezoelectric Transducers	Mechanical Properties of Hybrid Flat Braided Composites	Braided Pneumatic Muscle Marc Doumit (University of Ottawa)	Progressive Failure of Laminates T. E. Tay (National University of Singapore)	A New Insight into Polarized Raman Piezo- spectroscopy of Silicon Single-crystals: II,	10:00
10:10	Mechanical Properties Variation of Integrally Molded VaRTM Composite Wing Affected by	University)	B. Wang (Research Institute of Instrumentation Frontier, AIST)	Y. Sasaki (Kyoto Institute or Technology)	SAMPE International Student Awardee		T. Miyatake (Matsushita Electric Works, Ltd.)	10:10
10:20	Y. Hirano (JAXA)	Acoustic Emission Characteristics of Fiber Reinforced Plastics	Influence of the Excitation Frequency for the Delamination Detection via the Statistical	Advanced Multi-Physics Problems in Liquid Composite Molding (Keynote) 30min.	Fe-Mn-Si-Cr Shape Memory Alloy Reinforced Smart Composite (Invited) 30 min.	Master Curves Generation for Composites M. Nakada (Kanazawa Institute of	Confocal Raman Spectroscopic Analysis of Phase Transformation and Residual Stress	10:20
10:30	Impact Damage Detection in Scarf-repaired Composites by the Visualization of Ultrasonic	T. Morii (Shonan Institute of Technology)	Damage Diagnostic Method A. Iwasaki (Gunma University)	Christophe Binetruy (Ecole des Mines de Douai)	Y. Watanabe (Nagoya Institute of Technology)	Technology)	Fields in Alumina Matrix Composite K. Yamada (Kyoto Institute of Technology)	10:30
10:40	Wave Propagation Generated Using Pulsed Laser Y Ito (The University of Tokyo)	Study on In-situ Synthesized Titanium Matrix Composites	Shape Monitoring of Variously-deformed Composite Structures Using Embedded			MAE: A Durability Prediction Tool for Composites	Domain Visualization and Structure Analysis of Barium Titanate Polycrystalline by	10:40
10:50		D. Zhang (Shanghai Jiaotong University))	Optical Fiber Sensing System M. Nishio (The University of Tokyo)		Thermal Deformation Characteristics of SiC Fiber/Al Active Composites	Sangwook Sihn (University of Dayton Research Institute)	Cathodoluminescence Spectroscopy A. Matsutani (Kyoto Institute of Technology)	10:50
11:00		Short	Break	•	1. Kalilo (Chiba Oliversity)	Short	t Break	11:00
11:10-	PL-3 (Room 605) Future Automotive Techn Masatami Takimoto (Vice President, Toyota	ologies for Sustainable Mobility a Motor Corporation) Chair: Y. Ya	maguchi		See Left (Room 605)			11:10-
12:00- 13:00		Lunch	Break	Lunch Break				
13:00- 13:50	PL-4 (Room 605) Lightweight Materials – A Path to Enhanced Fuel Economy in Passenger Vehicles Raymond Boeman (Oak Ridge National Laboratory) Chair: Y. Yamaguchi			See Left (Room 605)				
	AEROSPACE-4	SIT Sponsored Session-4	SHM/NDE-2	POLYMER MATRIX COMPOSITES-4	SMART MATERIALS-4	AFOSR/AOARD Sponsored Session-2	MMC, CMC, C/C, HT Appl-2	
	Chair: T. Takatoya and Y. Komori	Chair: D. Zhang and C.E. Bakis	Chair: A. Iwasaki and M. Ueda	Chair: C. Binetruy and Thumsorn Supaporn	Chair: Y. Nishi and H. Asanuma	Chair: Y. Miyano	Chair: G. Pezzotti and Deluca Marco]
14:00	Characterization of Prepreg-based Discontinuous Carbon/Epoxy Systems for Aerospace Applications	Microstructural and Non-destructive Evaluation of a Crept Cr-Mo-V Steel T. Otani (Shonan Institute of Technology)	Evaluation of Fiber Damage in Partially- Flexible CFRP by Electrical Resistance Change Method	The Development of Peek/Cf Composite Sten for Hip Joint, An Application of Composite Materials for Medical Implant Device	Crack-healing Behavior and Resultant High- temperature Mechanical Properties of Machined Si3N4/SiC Composite Ceramics	Demonstration of a Fully Integrated Methodology of MMF-ATM-EFM Stephen W. Tsai (Stanford University)	Influence of Electron Beam Irradiation on Surface Fracture Toughness of Borosilicate Glass	14:00
14:10	P. Feraboli (University of Washington)		K. Kumagai (Tokyo Institute of Technology)	S. Bandoh (B.I.Tec Co.Ltd)	YS. Jung (Yokohama National University)	Sung Kyu Ha (Hanyang University, Ansan)	K. Takada (Tokai University)	14:10
14:20	Composites in Bearing Evaluation	A Study on Dynamic Damper Using High Damping Alloy for Pedestrian Bridges	Damage Identification of Quasi-isotropic Graphite/Epoxy Laminates Lising ERCM	Application of Ultrasonic Energy Measurement in Monitoring Resin Transfer Moulding (RTM) Process	Optical Fiber S Kishi (Nagoya Institute of Technology)	M. Nakada (Kanazawa Institute of Technology)	Effect of Electrical Potential to Aluminum Coated Ionic Conductor Glass on Interfacial Phenomena	14:20
14:30	Agency)	o. Fujinoto (ononan institute of Fedinology)	Y. Hirano (JAXA)	Lu Cheng Bin (University of Queensland)	o. Nan (Nagoya manate or recimology)	Sangwook Sihn (Univ. of Dayton Res. Inst.)	A. Fujita (Hiroshima University)	14:30
14:40	Detection of Crack Propagation in Foam Core Sandwich Structures Using FBG Sensors	Morph Biomineralization: From Biology to Material	Large Strain Measurement by Using Carbon Nanofiber/Elastomer Composite Patch	Composites Characterization by Acoustic Emission (Keynote) 30min.	Basic Research of Health monitoring of High Strength CFRP (Invited) 30 min.		Infiltration Behavior of Molten Aluminum Alloy to Porous Preform by Low Pressure	14:40
14:50	Embedded in a Crack Arrester I. Yamauchi (The University of Tokyo)	D. Zhang (Shanghai Jiaotong University)	Y. Shimamura (Shizuoka University)	Nak-Sam Choi (Hangyang University)	Y. Nishi (Tokai University)		G. Sasaki (Hiroshima University)	14:50
15:00	Coffoo Brook	Designing Broad-band Vibration Absorbers fo Structural Noise Control	Coffee Breek			Calla	o Prook	15:00
15:10	Corree Break E. Nishida (Shonan Institute of Technology)		Coffee Break	Coffee Break		e break	15:10	
15:20-	– Panel Discussion on "Energy: Generation & Saving via Composite Materials" (Room 605) <u>Junichi Matsui (V</u> enture Labo., Moderator) <u>Scott Beckwith (BTG Composites, SAMPE Technical Director); <u>Serge Dellu</u>s (Dassault Aviation, President SAMPE Europe) <u>Jeogmi Cho (H</u>ankuk Fiber Glass, Co., Ltd.); <u>Gaku Kimura (</u>GH Craft Ltd.)</u>				See Left (Room 605)			15:20-
17.40								17.40
18:00- 20:00	Banquet (Restaurant New Tokyo)				Banquet (Restaurant New Tokyo)			18:00- 20:00

November 30, Friday

November 30, Friday

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Time	Room 605	Room 606	Room 607	Room 608	Room 609	Room 610	Room 604	
	AUTOMOBILE, MARINE, CIVIL-1	SHM/NDE-3	GREEN COMPOSITES-1	POLYMER MATRIX COMPOSITES-5	SMART MATERIALS-5	Tutorial Seminar on Composite Fabrication	TRADITIONAL CRAFT-1	1
	Chair: K. Uzawa and Paolo Feraboli	Chair: K. Osaka and R. Matsuzaki	Chair: K. Goda and Wong-On Jessada	Chair: M. Nakada and Kazuto Tanaka	Chair: S. Kishimoto and H. Asanuma	Chair: K. lizuka and N. Teranishi	Chair: H. Hamada and A. Nakai	
9:20	Fatigue Behavior of Adhesive Joints Bonded	Impact Detection System for Foam Core	Tensile Properties of Green Composites	Influence of Water Absorption on Flexural	The Study on the Catalysis for Hydrogen	Tutorial-1 (9:20-10:20)	Biomechanical Analysis of Technique for Broducing "Shiraboo" String on Export	9:20
0.30	C. Sato (Tokyo Institute of Technology)	Sensors	T. Matuda (Nihon University)	Different Weave Structure	M. Hashimoto (Tokai Universitry)	Processing Technologies	M. Shirato (Kyoto Institute of Technology)	0.30
9.30		N. Akino (The University of Tokyo)		T. Uozu (Kanazawa Institute of Technology)		Michael Buck, Vice President, Phoenix TPC,		9.50
9:40	Impact Strength of CFRP Joints Bonded	Strain Monitoring with Embedded Optical	Effect of Matrix on Water Resistance of Kenaf	Prediction of Long-Term Fatigue Strength of	Wear Property of Al-Al3Ni FGMs Fabricated	Inc.	Correlation of Impression and Mechanical	9:40
0.50	Adhesively C. Sato (Tokyo Institute of Technology)	Fiber Sensors in the Bonded Part of FRP	Fiber Reinforced Plastic H. Kobayashi (Tokyo Institute of Technlogy)	Quasi-Isotropic CFRP Laminates with a Hole	by the Centrifugal In-situ Method T Takenaka (Nagoya Institute of Technology)		Properties of Structure with Circle Patterns on Textile of Cultural Property	0.50
9:50	o. oato (rokyo mattate or recimology)	K. Osaka (Osaka City University)	The robbygash (Tokyo Institute of Teenniogy)	under Compressive Loading T. Maeda (Kanazawa Institute of Technology)	1. Takenaka (Nagoya Institute of Teerinology)	,	K. Goto (Kyoto Institute of Technology)	9:50
10.00	Structural Design of CFRP Automobile Body	Intelligent Tires Based on Measurement of	Processing and Properties of	Time-dependent Degradation of Tensile	Fabrication of Piezoelectric Ceramic		Human Motion of Weaving "Kana-ami"	10.00
10.00	for Pedestrian Safety	Tire Deformation	HDPE/thermoplastic Starch Composite	Strength in UD-CFRP	Fiber/Aluminum Composites by the Interphase	e	Technique by Biomechanical Analysis	10.00
10:10	R. Shida (The University of Tokyo)	R. Matsuzaki (Tokyo Institute of Technology)	Reinforced with Corncob	J. Koyanagi (ISAS-JAXA)	Forming/Bonding Method		T. Tanaka (Kyoto Institute of Technology)	10:10
			Technology)		1. Chiba (Chiba University)			
10:20	Design, Manufacturing and Certification of a	Cure Monitoring of CFRP Using PPP-BOTDA	Mechanical and Physical Properties of Green	Characterization and Formation of High Heat	Fablication of Metallic Micro-closed Cellular	Tutorial-2 (10:20-11:20)	Analysis of Operation and Eye Movement	10:20
	Crashworthy All-composite Door prototype for the Lamborabini Murcièlago	and FBG Sensor M. Saitob (The University of Tokyo)	Particle Board Produce from Corncob and Starch Binder Composite	Resitance Composite Plate for Light Diffusing	Materials Containg Ceramics and Metals	Considerations for Thermoforming of	Concerning Master of Wire Net	
10:30	Paolo Feraboli (University of Washington)	init Galton (The University of Tokyo)	Surin Prayoon (Pathumwan Institute of	Research Institute, Taiwan)	Science)	Jon Fox-Rubin, President & CEO, Fiberforge	A. Colo (Csaka Gangyo University)	10:30
			Technology)			Corporation		_
	AUTOMOBILE, MARINE, CIVIL-2	MMC, CMC, C/C, HT Appl-3	GREEN COMPOSITES-2	POLYMER MATRIX COMPOSITES-6	SMART MATERIALS-6	-	TRADITIONAL CRAFT-2	_
10.10	Chair: C. Sato and W. Scott Beckwith	Chair: K. Nishiyabu and S. Wakayama	Chair: G. Ben and Surin Prayoon	Chair: Ta Hsin Chou and T. Kosaka	Chair: Kwang-Joon Yoon and Y. Okabe		Chair: A. Goto and Leigh Morris	40.40
10:40	for Fuel Cell Vehicle	evaluation of Thermal Shock Benavior of 3D- woven SiC/SiC Composites Using a Direct	Reinforced Sovbean-Based Resin Fabricated	Speed on Properties of HDPF/Aluminum Foil	Development of a Novel 033-Mode Piezocomposites Unimorph Actuator		Leigh Morris (Creative Fibre of New Zealand)	10:40
10.20	A. Uemura (Tokai University)	Diode Laser Irradiation	by VaRTM	Composite	(Keynote) 40 min.			10.20
10.00		T. Hayashi (Tokyo Metropolitan University)	T. Ono (Shizuoka University)	Thumsorn Supaporn (Rajamangala University	Kwang-Joon Yoon (Konkuk University)			10.00
11.00	Stress Resonance of FRP Vessel under	Fabrication of SiC Fiber Reinforced SiC	Tensile Properties of Washi-paper Reinforced	High Speed Molding of Carbon Fiber	-			11:00
11.00	Internal Pressure	Composites via Micro-Porous Structure	Polylactic Acid (PLA) as a Green Composites	Reinforced Thermoplastic Using				11.00
11:10	K. Hariya (The University of Tokyo)	K. Nishiyabu (Osaka Prefectural College of	I. Ohsawa (The University of Tokyo)	Electromagnetic Induction			Relationship between Various Edge Shapes	11:10
11:20	Deensea Filament Wound Pressure Vessels:	Mechanical Properties of SiC Fiber Reinforcer	Thermonlastic Thermosetting and	Water Absorption of Nylon6 Irradiated by	Development of SMA Hopeycomb Sandwich	Tutorial-3 (11:20-12:20)	and Sensory Evaluations of Kitchen Knives	11:20
11.20	Challenges in Designing and Manufacturing	SiC Composites Fabricated by Polymer	Biodegradable Green Composites (Keynote)	Electron Beam	Panel with Recovery Function for Impact	Continuous Fiber Reinforced Thermoplastics	T. Kawasaki (Kyoto Institute of Technology)	11.20
11:30	Thick-wall Structures for Deepwater Oilfield	Impregnation and Pyrolysis Process	30 min.	R. Suenaga (Tokai University)	Damage	and Aerospace Applications	Biomechanical Analysis of "Kyo-Gashi"	11:30
	Operations W. Scott Beckwith (BTG Composites Inc.)	Combined with Powder Space Holder	Donghwan Cho (Kumoh National Institute of Technology)		Y. Okabe (The University of Tokyo)	A. Offringa, Director , R&D, Stork Fokker	Techniques and Skills for Japanese Sweets	
	The Book Book and Bro Book position me.	M. Kotani (JAXA)	(comology)			ALGI B.V.	Experts A Obnishi (Kvoto Institute of Technology)	
11:40	Feasibility Study of Composite Tidal Turbine	Characterization of Foreign Object Damage in		Static Fracture Toughness of Fiber	Giant Positive Magnetostrictve Tb-Fe Film		A. Official (Ryoto Institute of recimology)	11:40
11:50	K. Uzawa (The University of Tokyo)	K. Ogi (Ehime University)	Green Composite Based on Bamboo	Beam	Resistance		Comparison of Body Movement between	11:50
			Microfibrillated Cellulose and Polyvinyl Alcoho	N. Hironaka (Tokai University	Y. Okamoto (Tokai University		Expert and the Non-expert Wall Clay	
12:00		Lensile Strength of C/C Composites	Vu Minh Duc (Doshisha University)				Plasterers M. Kume (Kvoto Institute of Technology)	12:00
12:10	:10 IN Kume (Avoid Institute of Technology)							
						-		
12:10-							Adhesion Structure	12:10
13:00		Lunch	Break		Lunch Break	Lunch Break	Y. Hidekuma (Kvoto Institute of Technology	12:20
							Lunch Break	-13:00
13:00-	SL-2 (Room 605) The Boeing 787 Dreamliner: A New Aeroplane for a New World				See Left (Room 605)			
13:40	Jess frostie (soeing) Chair: 1. (Shikawa S1-3) Room 665) Structure Health Monitorina of Components for Aerospace and Wind Energy Systems				See Left (Room 605)			13:40
14:20	Norbert Meyendorf (Fraunhofer Institute fo	r Non-Destructive Testing, IZFP)	Chair: N. Takeda					
14:20-		Coffee	Break		Coffee Break			14:20-
14:40		MMC CMC C/C HT Appl 4	CREEN COMPOSITES 3	DOLYMED MATRIX COMPOSITES 7	SMART MATERIALS 7			14:40
	Chair: I. Takabashi and C. Sate	Chair K. Oni and M. Katari	Chair V Shimamura and Donghuran Cha	Chair V Jupper and S. H. MOUD DAMU	Chair V Furue and W Netros	STIM/NUE-4	l	-
14:40	Stiffness Deterioration of FRP-Concrete	Surface Stresses in Alumina-based Materials	Development and Property Evaluation of	An Experimental Investigation of the Shear	Development of Multi-Ferroic Actuator/Sensor	Overview of the Japanese Structure Health	l	14:40
14.40	Interface Under Fatigue Loading	by Scanning Electron Stress Microscopy	Maize Originated Green Composites	Strength Test Method for CFRP Laminates	Material and Device for Intelligent/Smart	Monitoring System Project	/	14.40
14:50	Diab Mohamed Hesham (Ibaraki University)	Munisso Maria Chiara (Kyoto Institute of	S. Takahashi (Tokyo Metropolitan University)	Y. Iwahori (ACE TeC-JAXA)	Technology (Invited) 30 min.	Y. Koshioka (Research Institute for Metals and	/	14:50
15:00	Development of the Automotive Structure	Lechnology) Characterization of Thermal Shock Fracture	Influence of Interface Control on Elevure	Tension after Impact Strength on CERP	Y. Furuya (Hirosaki University)	Composites for Future Industries)	/	15:00
15.00	Member by New SMC	Resistance of High Volume Fraction SiC	Properties in HAp/PLLA Composite	Laminates with Scarf Joint		(HRAGS) Demonstrator for Aircraft Structures		15.00
	N. Kajioka (DaikyoNishikawa Corporation)	Whisker Reinforced Alumina	M. Tanaka (Kanazawa Institute of	H. Hoshi (JAST)	Mission from the stand March and all Descentions of	H. Takeya (Mitsubishi Electric Corporation)		
15:10		 Wakayama (Tokyo Metropolitan University) 	lechnology)		Ni-Al Fiber Reinforced Composite Fabricated			15:10
15:20	Energy Saving Effect of Light-weight Electric	Crack-Healing Behavior of Mullite/SiC Multi-	Molding and Mechanical Propeties of Ramie	Direct Out-of-Plane Tensile Test Method for	by the Reaction at Narrow Holes Method	R&D of Impact Damage Detection System for	1 /	15:20
	Vehicle Using CFRP on Transportation Secto	Composite Under Stress and Resultant	Yam Reinforced PBS	CFRP Laminates	S. Gonda (Nagoya Institute of Technology)	Airframe Structures Using Optical Fiber		
15:30	1. Nati (The University of Tokyo)	K. Takahashi (Yokohama National University)	I. NOSARA (USARA City Universalty)	L. Haid (AGE 180-JAXA)	Ennancement of Self Crack Healing Ability in Structural Ceramics by SiC Nano-sizing	H. Tsutsui (Kawasaki Heavy Industries. Ltd.)		15:30
15:40	Mechanical Properties of CFRP after	High-efficient Machining of Alumina/ SiC	Evaluation of Mechanical Properties in	An Ealuation of the Performance of	W. Nakao (Yokohama National University)	Damage Growth Detection of Practical Impact	1 /	15:40
	Repeating Recycling by Injection Molding	Composites By Using Crack-healing	Bamboo Fiber Reinforced PBS Composite	Composite Overlap Repairs in Seawater	The Theorem 116 Dell 199	Damage Using FBG Sensor/AWG Filter		
15:50	Methoa H. Uno (The University of Tokyo)	1. Usada (Yokohama National University)	A. Ukada (Tokyo University of Science)	Environment MOHD RAMI I Siti Haslina (PETRONAS	The Through Life Reliability Maintaining of Ceramic Component Using Crack-bealing and	Active Sensing System		15:50
16.00	Influence of the Pretreatment on the	Enhancement of Mechanical Properties of	Development of Crush Energy Absorber	Observations on Tensile and Compressive	Proof Test	SHM for Bolted Joint Portion Using BOCDA	/	16:00
.0.00	Mechanical Properties of the Recycled CFRP	Carbon/Carbon Composites by Flat Braided	Using Bamboo Fiber Reinforced	Behavior for Off-axis Fiber Composites	M. Ono (Yokohama National University)	System		10.00
16:10	H. Koyama (The University of Tokyo)	Reinforcement	Biodegradable Plastic	Yi Xiao (ACE TeC-JAXA)		T. Yari (Mitsubishi Heavy Industries, Ltd.)		16:10
		Technology)	A ANALIOT (NITION UNIVERSITY)				V	
16:20	End				_		End	16:20

16:20 End

Poster Session (November 28, 16:20-17:40)

16:20-17:00 17:00-17:40 Short Oral Presentation by Poster Presentators Poster Q&A Period 2 min. for each power point presentation (3 pages at maximum, no movie, without Q&A) (3 pages at maximum, no movie, without Q&A) (Each presentator is required to stay in front of posters for discussion)

Poster Session-1 (Room 607)	Poster Session-2 (Room 608)
Chair: S. Yashiro	Chair: Y. Okabe
(PS-P1) Fabrication and Mechanical Properties of JUTE/PLA Composite Using Braiding	(PS-P15) Raman Spectroscopic Study of Phase Transformation Toughening in
Technique	Polycrystalline Zirconia
M. Sakata (Kyoto Institute of Technology)	K. Fukatsu (Kyoto Institute of Technology)
(PS-P2) Effect of Fabric Density on the Tensile Properties of Fully-green Composites	(PS-P16) Raman Piezo-Spectroscopic Study of Stress Distribution in CaMoO4/Si Thin Film
Reinforced with Ramie Woven Fabrics	Materials
R. Nakamura (Yamaguchi University)	Runtao Li (Kyoto Institute of Technology)
(PS-P3) Mechanical Properties of kenaf/PLA cross-ply laminated composites	(PS-P17) Confocal Raman Spectroscopic Analysis of Degradation Mechanism in Artificial Hi
S Sakamoto (Vamaguchi University)	Joints
3. Sakanoto (Tamaguchi Oniversity)	Y. Takahashi (Kyoto Institute of Technology)
(PS-P4) Characterization of Nonlinear Behavior of CFRP Laminates under Off-axis Tension	(PS-P18) Mechanical Properties and Microstructure of Porous Titanium for Bone Tissue
and Compression Loadings	Fabricated by SPS Method
S. Yoshida (Tokyo University of Science)	Y. Iwasa (Nagoya Institute of Technology)
(PS-P5) Experimental Evaluation of Heat Radiation Component Using a High Thermal	(PS-P19) A Piezospectroscopic Approach to Stress Intensity Assessment in Single-crystallin
Conductivity CFRP	and Polycrystalline Ceramics
S. Ogihara (Tokyo University of Science)	S. Yano (Kyoto Institute of Technology)
(PS-P6) Optimum Implant Length of Carbon Fiber in Adhesive Polymer on Tensile Test	(PS-P20) Optical Losses of Small-diameter Optical Fibers Embedded in CFRP Laminate
Y. Kamiya (Tokai University)	T. Nakamura (The University of Tokyo)
(PS-P7) Bending Properties of CF/GF Fiber Hybrid Multi-axial Warp Knitted Fabric Composit	(PS-P21) Quantitative Analysis of Anelastic Recovery in Pure Magnesium Using Acoustic
Materials	Emission
T. Sugie (Kyoto Institute of Technology)	Li Yunping (The University of Tokyo)
(PS-P8) Design of Braided Composite Pipes	(PS-P22) Damage Identification in CFRP Laminates Using Broadband Ultrasonic Waves
A. Ohtani (Kyoto Institute of Technology)	F. Nakayama (The University of Tokyo)
(PS-P9) A Combined Experimental/Computational Approach to Evaluating the Interfacial	(PS-P23) Development of Noise Reduction Technique for AE Monitoring during Plasma
Deformation and Fracture in Fiber-reinforced Composites	Spray Coating Process
K. Hemmi (The University of Tokyo)	K. Ito (The University of Tokyo)
(PS-P10) Tensile Strength and Fracture Toughness of Paper-Based Friction Material	(PS-P24) Health Monitoring of CFRP Structures Using Electrical Resistance Change Method
T. Wada (Shizuoka University)	N. Hirai (Tokyo Institute of Technology)
(PS-P11) Purpose and Target of the Development of Carbon Fiber Reinforced	(PS-P25) Application of Statistical Damage Detection to CFRP Panel-stringer Structure
Thermoplastics	K. Takahashi (Tokyo Institute of Technology)
(PS-P12) Mechanical Properties of Composite Nylon6 with Powders Dispersed of 18-8	(PS-P26) Combination of AE Technology and Displacement Measurement System to Monitor
Stainless Steel for Exterior Application	Composite Pressure Vessel
Y. Ebihara (Tokai University)	H. Z. Hui (Harbin Institute of Technology)
(PS-P13) Improvement of the Mechanical Properties of Recycled CFRP	(PS-P27) Responsiveness of Mover Device Driven by LaNi5 Hydrogen Storage Alloy Film
T. Okazumi (The University of Tokyo)	A. Shimazu (Tokai University)
(PS-P14) Proposal of Commuter Bus Using CERP for Sustainable Transportation	
K. Satoh (The University of Tokyo)	
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