



November 29, Thursday

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Time	Room 605	Room 606	Room 607	Room 608	Room 609	Room 610	Room 604	
	<b>AEROSPACE-3</b>	<b>SIT Sponsored Session-3</b>	<b>SHM/NDE-1</b>	<b>POLYMER MATRIX COMPOSITES-3</b>	<b>SMART MATERIALS-3</b>	<b>AFOSR/AOARD Sponsored Session-1</b>	<b>MMC, CMC, C/C, HT Appl-1</b>	
	<i>Chair: Y. Nagao and A. Paolozzi</i>	<i>Chair: K. Friedrich and W. I. Lee</i>	<i>Chair: Y. Shimamura and B. Wang</i>	<i>Chair: S. Bando and Nak-Sam Choi</i>	<i>Chair: Y. Watanabe and M. Enoki</i>	<i>Chair: Y. Miyano</i>	<i>Chair: S. Sasaki and T. Weissgaerber</i>	
9:20	A-VaRTM Technology Application on Primary Aircraft Structures ( <b>Keynote</b> ) 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 T. Yasuoka (Tokyo Institute of Technology)	Design of Fiber Orientation and Mechanical Properties of Rectangular Braided Composite Pipe H. Nishimoto (Kyoto Institute of Technology)	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 ( <b>Invited</b> ) 20 min. Thomas Weissgaerber (Fraunhofer-Institute IFAM Dresden, Germany)	
9:30								
9:40		Smart Textiles in Well-being and Ubiquitous Era T. J. Kang (Seoul National University)	Finite Element Study of Electric Potential Technique for Delamination Identification in Quasi-isotropic CFRP Laminates M. Ueda (Nihon University)	Mechanical Properties of Fiber-Hybrid I-shaped Braided Composite M. Shinokubo (Marui-Orimono.Co)	Effect of Variable Amplitude Loading on Characteristics of Smart Stress Memory Patch Y. Fujino (The University of Tokyo)	A Micromechanics Square Unit Cell Model with an Octahedral Fiber for Continuous Fiber Reinforced Composites Sung Kyu Ha (Hanyang University, Ansan)	A New Insight into Polarized Raman Piezoelectroscopy of Silicon Single-crystals: I, Theory Deluca Marco (Kyoto Institute of Technology)	
9:50	Low Cost Composite Wing Structure Manufacturing Technology Development Program in JAXA (Status Report) Y. Nagao (JAXA)	Filament Wound Cylinders with Flexible/Rigid Layerwise Hybrid Resins K. K. Bossenbroek (The Pennsylvania State University)	Structural Health Monitoring System Using Directional Piezoelectric Transducers B. Wang (Research Institute of Instrumentation Frontier, AIST)	Mechanical Properties of Hybrid Flat Braided Composites Y. Sasaki (Kyoto Institute of Technology)	Braided Pneumatic Muscle Marc Doumit (University of Ottawa) SAMPE International Student Awardee	Progressive Failure of Laminates T. E. Tay (National University of Singapore)	A New Insight into Polarized Raman Piezoelectroscopy of Silicon Single-crystals: II, Applications T. Miyatake (Matsushita Electric Works, Ltd.)	
10:00								
10:10	Mechanical Properties Variation of Integrally Molded VaRTM Composite Wing Affected by Manufacturing Quality Y. Hirano (JAXA)	Acoustic Emission Characteristics of Fiber Reinforced Plastics T. Mori (Shonan Institute of Technology)	Influence of the Excitation Frequency for the Delamination Detection via the Statistical Damage Diagnostic Method A. Iwasaki (Gunma University)	Advanced Multi-Physics Problems in Liquid Composite Molding ( <b>Keynote</b> ) 30min. Christophe Binetruy (Ecole des Mines de Douai)	Fe-Mn-Si-Cr Shape Memory Alloy Reinforced Smart Composite ( <b>Invited</b> ) 30 min. Y. Watanabe (Nagoya Institute of Technology)	Master Curves Generation for Composites M. Nakada (Kanazawa Institute of Technology)	Confocal Raman Spectroscopic Analysis of Phase Transformation and Residual Stress Fields in Alumina Matrix Composite K. Yamada (Kyoto Institute of Technology)	
10:20								
10:30	Impact Damage Detection in Scarf-repaired Composites by the Visualization of Ultrasonic Wave Propagation Generated Using Pulsed Laser Y. Ito (The University of Tokyo)	Study on In-situ Synthesized Titanium Matrix Composites D. Zhang (Shanghai Jiaotong University)	Shape Monitoring of Various-deformed Composite Structures Using Embedded Optical Fiber Sensing System M. Nishio (The University of Tokyo)			MAE: A Durability Prediction Tool for Composites Sangwook Sihn (University of Dayton Research Institute)	Domain Visualization and Structure Analysis of Barium Titanate Polycrystalline by Cathodoluminescence Spectroscopy A. Matsutani (Kyoto Institute of Technology)	
10:40								
10:50					Thermal Deformation Characteristics of SiC Fiber/Al Active Composites T. Kaiho (Chiba University)			
11:00	Short Break				Short Break			
11:10	<b>PL-3 (Room 605) Future Automotive Technologies for Sustainable Mobility</b>				See Left (Room 605)			
12:00	<b>Masatami Takimoto (Vice President, Toyota Motor Corporation)</b> <i>Chair: Y. Yamaguchi</i>							
12:00	Lunch Break				Lunch Break			
13:00	<b>PL-4 (Room 605) Lightweight Materials – A Path to Enhanced Fuel Economy in Passenger Vehicles</b>				See Left (Room 605)			
13:50	<b>Raymond Boeman (Oak Ridge National Laboratory)</b> <i>Chair: Y. Yamaguchi</i>							
	<b>AEROSPACE-4</b>	<b>SIT Sponsored Session-4</b>	<b>SHM/NDE-2</b>	<b>POLYMER MATRIX COMPOSITES-4</b>	<b>SMART MATERIALS-4</b>	<b>AFOSR/AOARD Sponsored Session-2</b>	<b>MMC, CMC, C/C, HT Appl-2</b>	
	<i>Chair: T. Takatoya and Y. Komori</i>	<i>Chair: D. Zhang and C.E. Bakis</i>	<i>Chair: A. Iwasaki and M. Ueda</i>	<i>Chair: C. Binetruy and Thumsom Supaporn</i>	<i>Chair: Y. Nishi and H. Asanuma</i>	<i>Chair: Y. Miyano</i>	<i>Chair: G. Pezzotti and Deluca Marco</i>	
14:00	Characterization of Prepreg-based Discontinuous Carbon/Epoxy Systems for Aerospace Applications P. Feraboli (University of Washington)	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 K. Kumagai (Tokyo Institute of Technology)	The Development of Peek/CF Composite Stem for Hip Joint. An Application of Composite Materials for Medical Implant Device S. Bando (B.I.Tec Co.Ltd)	Crack-healing Behavior and Resultant High-temperature Mechanical Properties of Machined Si3N4/SiC Composite Ceramics Y.-S. Jung (Yokohama National University)	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 K. Takada (Tokai University)	
14:10								
14:20	Long Term Durability of the Bismaleimide Composites in Bearing Evaluation T. Takatoya (Japan Aerospace Exploration Agency)	A Study on Dynamic Damper Using High Damping Alloy for Pedestrian Bridges S. Fujimoto (Shonan Institute of Technology)	Investigation of Delamination Model for Damage Identification of Quasi-isotropic Graphite/Epoxy Laminates Using ERCM Y. Hirano (JAXA)	Application of Ultrasonic Energy Measurement in Monitoring Resin Transfer Moulding (RTM) Process Lu Cheng Bin (University of Queensland)	Health Monitoring of Bag Filter using an Optical Fiber S. Kishi (Nagoya Institute of Technology)	Sung Kyu Ha (Hanyang University, Ansan)	T. E. Tay (National University of Singapore)	
14:30						M. Nakada (Kanazawa Institute of Technology)	Effect of Electrical Potential to Aluminum Coated Ionic Conductor Glass on Interfacial Phenomena A. Fujita (Hiroshima University)	
14:40	Detection of Crack Propagation in Foam Core Sandwich Structures Using FBG Sensors Embedded in a Crack Arrester I. Yamauchi (The University of Tokyo)	Morph Biomineralization: From Biology to Material D. Zhang (Shanghai Jiaotong University)	Large Strain Measurement by Using Carbon Nanofiber/Elastomer Composite Patch Y. Shimamura (Shizuoka University)	Composites Characterization by Acoustic Emission ( <b>Keynote</b> ) 30min. Nak-Sam Choi (Hangyang University)		Sangwook Sihn (Univ. of Dayton Res. Inst.)	Infiltration Behavior of Molten Aluminum Alloy to Porous Preform by Low Pressure G. Sasaki (Hiroshima University)	
14:50								
15:00	Coffee Break	Designing Broad-band Vibration Absorbers for Structural Noise Control E. Nishida (Shonan Institute of Technology)	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
15:10								
15:20	<b>Panel Discussion on "Energy: Generation &amp; Saving via Composite Materials" (Room 605)</b>				See Left (Room 605)			
17:40	<b>Junichi Matsui (Venture Labo., Moderator)</b> <b>Scott Beckwith (BTG Composites, SAMPE Technical Director)</b> ; <b>Serge Dellus (Dassault Aviation, President SAMPE Europe)</b> <b>Jeogmi Cho (Hankuk Fiber Glass, Co., Ltd.)</b> ; <b>Gaku Kimura (GH Craft Ltd.)</b>							
18:00	<b>Banquet (Restaurant New Tokyo)</b>				<b>Banquet (Restaurant New Tokyo)</b>			
20:00								

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	<b>AUTOMOBILE, MARINE, CIVIL-1</b> <i>Chair: K. Uzawa and Paolo Feraboli</i>	<b>SHM/NDE-3</b> <i>Chair: K. Osaka and R. Matsuzaki</i>	<b>GREEN COMPOSITES-1</b> <i>Chair: K. Goda and Wong-On Jessada</i>	<b>POLYMER MATRIX COMPOSITES-5</b> <i>Chair: M. Nakada and Kazuo Tanaka</i>	<b>SMART MATERIALS-5</b> <i>Chair: S. Kishimoto and H. Asanuma</i>	<b>Tutorial Seminar on Composite Fabrication</b> <i>Chair: K. Iizuka and N. Teranishi</i>	<b>TRADITIONAL CRAFT-1</b> <i>Chair: H. Hamada and A. Nakai</i>
9:20	Fatigue Behavior of Adhesive Joints Bonded with Dismantlable Adhesives C. Sato (Tokyo Institute of Technology)	Impact Detection System for Foam Core Sandwich Panel Using Embedded FBG Sensors N. Akino (The University of Tokyo)	Tensile Properties of Green Composites Fabricated with Pultrusion Method T. Matuda (Nihon University)	Influence of Water Absorption on Flexural Fatigue Strength for CFRP Laminates with Different Weave Structure T. Uozu (Kanazawa Institute of Technology)	The Study on the Catalysis for Hydrogen Adsorption Properties of LaNi5 M. Hashimoto (Tokai University)	<b>Tutorial-1</b> (9:20-10:20) Thermoplastic Composites, Materials & Processing Technologies Michael Buck, Vice President, Phoenix TPC, Inc.	Biomechanical Analysis of Technique for Producing "Shirabeo" String on Expert M. Shirato (Kyoto Institute of Technology)
9:30							9:30
9:40	Impact Strength of CFRP Joints Bonded Adhesively C. Sato (Tokyo Institute of Technology)	Strain Monitoring with Embedded Optical Fiber Sensors in the Bonded Part of FRP Joints K. Osaka (Osaka City University)	Effect of Matrix on Water Resistance of Kenaf Fiber Reinforced Plastic H. Kobayashi (Tokyo Institute of Technology)	Prediction of Long-Term Fatigue Strength of Quasi-Isotropic CFRP Laminates with a Hole under Compressive Loading T. Maeda (Kanazawa Institute of Technology)	Wear Property of Al-AI3Ni FGMs Fabricated by the Centrifugal In-situ Method T. Takenaka (Nagoya Institute of Technology)		Correlation of Impression and Mechanical Properties of Structure with Circle Patterns on Textile of Cultural Property K. Goto (Kyoto Institute of Technology)
9:50							9:40
10:00	Structural Design of CFRP Automobile Body for Pedestrian Safety R. Shida (The University of Tokyo)	Intelligent Tires Based on Measurement of Tire Deformation R. Matsuzaki (Tokyo Institute of Technology)	Processing and Properties of HDPE/thermoplastic Starch Composite Reinforced with Corncob Wong-On Jessada (Pathumwan Institute of Technology)	Time-dependent Degradation of Tensile Strength in UD-CFRP J. Koyanagi (ISAS-JAXA)	Fabrication of Piezoelectric Ceramic Fiber/Aluminum Composites by the Interphase Forming/Bonding Method T. Chiba (Chiba University)		Human Motion of Weaving "Kana-ami" Technique by Biomechanical Analysis T. Tanaka (Kyoto Institute of Technology)
10:10							10:00
10:20	Design, Manufacturing and Certification of a Crashworthy All-composite Door prototype for the Lamborghini Murciélago Paolo Feraboli (University of Washington)	Cure Monitoring of CFRP Using PPP-BOTDA and FBG Sensor M. Saitoh (The University of Tokyo)	Mechanical and Physical Properties of Green Particle Board Produce from Corncob and Starch Binder Composite Surin Prayoon (Pathumwan Institute of Technology)	Characterization and Formation of High Heat Resistance Composite Plate for Light Diffusing Ta Hsin Chou (Industrial Technology Research Institute, Taiwan)	Fabrication of Metallic Micro-closed Cellular Materials Containing Ceramics and Metals S. Kishimoto (National Institute for Materials Science)	<b>Tutorial-2</b> (10:20-11:20) Considerations for Thermoforming of Continuous Fiber Reinforced Composites Jon Fox-Rubin, President & CEO, Fiberforge Corporation	Analysis of Operation and Eye Movement Concerning Master of Wire Net A. Goto (Osaka Sangyo University)
10:30							10:20
	<b>AUTOMOBILE, MARINE, CIVIL-2</b> <i>Chair: C. Sato and W. Scott Beckwith</i>	<b>MMC, CMC, C/C, HT Appl-3</b> <i>Chair: K. Nishiyabu and S. Wakayama</i>	<b>GREEN COMPOSITES-2</b> <i>Chair: G. Ben and Surin Prayoon</i>	<b>POLYMER MATRIX COMPOSITES-6</b> <i>Chair: Ta Hsin Chou and T. Kosaka</i>	<b>SMART MATERIALS-6</b> <i>Chair: Kwang-Joon Yoon and Y. Okabe</i>		<b>TRADITIONAL CRAFT-2</b> <i>Chair: A. Goto and Leigh Morris</i>
10:40	Development of Hydrogen Storage Materials for Fuel Cell Vehicle A. Uemura (Tokai University)	Evaluation of Thermal Shock Behavior of 3D woven SiC/SiC Composites Using a Direct Diode Laser Irradiation T. Hayashi (Tokyo Metropolitan University)	Mechanical Properties of Natural Fiber Reinforced Soybean-Based Resin Fabricated by VaRTM T. Ono (Shizuoka University)	Effect of Filler Content and Screw Extruder Speed on Properties of HDPE/Aluminum Foil Composite Thumsorn Supaporn (Rajamangala University of Technology Thanyaburi)	Development of a Novel d33-Mode Piezocomposites Unimorph Actuator <b>(Keynote)</b> 40 min. Kwang-Joon Yoon (Konkuk University)		<b>Braids (Keynote)</b> 30 min. Leigh Morris (Creative Fibre of New Zealand)
10:50							10:40
11:00	Stress Resonance of FRP Vessel under Internal Pressure K. Hariya (The University of Tokyo)	Fabrication of SiC Fiber Reinforced SiC Composites via Micro-Porous Structure K. Nishiyabu (Osaka Prefectural College of Technology)	Tensile Properties of Washi-paper Reinforced Poly(lactic Acid) (PLA) as a Green Composites I. Ohsawa (The University of Tokyo)	High Speed Molding of Carbon Fiber Reinforced Thermoplastic Using Electromagnetic Induction Kazuo Tanaka (Doshisha University)			Relationship between Various Edge Shapes and Sensory Evaluations of Kitchen Knives Grinded by Experts T. Kawasaki (Kyoto Institute of Technology)
11:10							11:10
11:20	Deepsea Filament Wound Pressure Vessels: Challenges in Designing and Manufacturing Thick-wall Structures for Deepwater Oilfield Operations W. Scott Beckwith (BTG Composites Inc.)	Mechanical Properties of SiC Fiber Reinforced SiC Composites Fabricated by Polymer Impregnation and Pyrolysis Process Combined with Powder Space Holder Technique M. Kotani (JAXA)	Thermoplastic, Thermosetting and Biodegradable Green Composites <b>(Keynote)</b> 30 min. Donghwan Cho (Kumoh National Institute of Technology)	Water Absorption of Nylon6 Irradiated by Electron Beam R. Suenaga (Tokai University)	Development of SMA Honeycomb Sandwich Panel with Recovery Function for Impact Damage Y. Okabe (The University of Tokyo)	<b>Tutorial-3</b> (11:20-12:20) Continuous Fiber Reinforced Thermoplastics and Aerospace Applications A. Offringa, Director, R&D, Stork Fokker AESP B.V.	Biomechanical Analysis of "Kyo-Gashi" Techniques and Skills for Japanese Sweets Experts A. Ohnishi (Kyoto Institute of Technology)
11:30							11:20
11:40	Feasibility Study of Composite Tidal Turbine Blade K. Uzawa (The University of Tokyo)	Characterization of Foreign Object Damage in Ceramics and Ceramic Matrix Composites K. Ogi (Ehime University)	Green Composite Based on Bamboo Microfibrillated Cellulose and Poly(vinyl Alcohol) Vu Minh Duc (Doshisha University)	Static Fracture Toughness of Fiber Reinforced Polymer Irradiated by Electron Beam N. Hironaka (Tokai University)	Giant Positive Magnetostrictive Tb-Fe Film Coated by Pd-Fe Film with High Corrosion Resistance Y. Okamoto (Tokai University)		Comparison of Body Movement between Expert and the Non-expert Wall Clay Plasterers M. Kume (Kyoto Institute of Technology)
11:50							11:40
12:00		Tensile Strength of C/C Composites J. Koyanagi (JAXA)					11:50
12:10							12:00
12:10-13:00	Lunch Break				Lunch Break		Deformation Behavior of Kyoto Bow with Adhesion Structure Y. Hidekuma (Kyoto Institute of Technology)
13:00					Lunch Break		Lunch Break
13:00-13:40	<b>SL-2 (Room 605) The Boeing 787 Dreamliner: A New Aeroplane for a New World</b> Jess Trostle (Boeing) <i>Chair: T. Ishikawa</i>				See Left (Room 605)		13:00-13:40
13:40-14:20	<b>SL-3 (Room 605) Structural Health Monitoring of Components for Aerospace and Wind Energy Systems</b> Norbert Meyendorf (Fraunhofer Institute for Non-Destructive Testing, IZFP) <i>Chair: N. Takeda</i>				See Left (Room 605)		13:40-14:20
14:20-14:40	Coffee Break				Coffee Break		14:20-14:40
	<b>AUTOMOBILE, MARINE, CIVIL-3</b> <i>Chair: J. Takahashi and C. Sato</i>	<b>MMC, CMC, C/C, HT Appl-4</b> <i>Chair: K. Ogi and M. Kotani</i>	<b>GREEN COMPOSITES-3</b> <i>Chair: Y. Shimamura and Donghwan Cho</i>	<b>POLYMER MATRIX COMPOSITES-7</b> <i>Chair: Y. Iwahori and S. H. MOHD RAMLI</i>	<b>SMART MATERIALS-7</b> <i>Chair: Y. Furuya and W. Nakao</i>	<b>SHM/NDE-4</b> <i>Chair: T. Ogisu and N. Meyendorf</i>	
14:40	Stiffness Deterioration of FRP-Concrete Interface Under Fatigue Loading Diab Mohamed Hesham (Ibaraki University)	Surface Stresses in Alumina-based Materials by Scanning Electron Stress Microscopy Munisso Maria Chiara (Kyoto Institute of Technology)	Development and Property Evaluation of Maize Originated Green Composites S. Takahashi (Tokyo Metropolitan University)	An Experimental Investigation of the Shear Strength Test Method for CFRP Laminates Y. Iwahori (ACE TeC-JAXA)	Development of Multi-Ferroic Actuator/Sensor Material and Device for Intelligent/Smart Technology <b>(Invited)</b> 30 min. Y. Furuya (Hirocas National University)	Overview of the Japanese Structure Health Monitoring System Project Y. Koshioka (Research Institute for Metals and Composites for Future Industries)	14:40
14:50						Highly Reliable Advanced Grid Structure (HRAGS) Demonstrator for Aircraft Structures H. Takeya (Mitsubishi Electric Corporation)	14:50
15:00	Development of the Automotive Structure Member by New SMC N. Kajjoka (DaikyoNishikawa Corporation)	Characterization of Thermal Shock Fracture Resistance of High Volume Fraction SiC Whisker Reinforced Alumina S. Wakayama (Tokyo Metropolitan University)	Influence of Interface Control on Flexure Properties in HA/PLLA Composite M. Tanaka (Kanazawa Institute of Technology)	Tension after Impact Strength on CFRP Laminates with Scarf Joint H. Hoshi (JAST)			15:00
15:10						Microstructure and Mechanical Properties of Ni-Al Fiber Reinforced Composite Fabricated by the Reaction at Narrow Holes Method S. Gonda (Nagoya Institute of Technology)	15:10
15:20	Energy Saving Effect of Light-weight Electric Vehicle Using CFRP on Transportation Sector Y. Kan (The University of Tokyo)	Crack-Healing Behavior of Mullite/SiC Multi-Composite Under Stress and Resultant Fatigue Strength K. Takahashi (Yokohama National University)	Molding and Mechanical Properties of Ramie Yam Reinforced PBS T. Kosaka (Osaka City University)	Direct Out-of-Plane Tensile Test Method for CFRP Laminates E. Hara (ACE TeC-JAXA)		R&D of Impact Damage Detection System for Airframe Structures Using Optical Fiber Sensors H. Tsutsui (Kawasaki Heavy Industries, Ltd.)	15:20
15:30						Enhancement of Self Crack Healing Ability in Structural Ceramics by SiC Nano-sizing W. Nakao (Yokohama National University)	15:30
15:40	Mechanical Properties of CFRP after Repeating Recycling by Injection Molding Method H. Uno (The University of Tokyo)	High-efficient Machining of Alumina/ SiC Composites by Using Crack-healing T. Osada (Yokohama National University)	Evaluation of Mechanical Properties in Bamboo Fiber Reinforced PBS Composite A. Okada (Tokyo University of Science)	An Evaluation of the Performance of Composite Overlap Repairs in Seawater Environment MOHD RAMLI Siti Haslina (PETRONAS)	The Through Life Reliability Maintaining of Ceramic Component Using Crack-healing and Proof Test M. Uno (Yokohama National University)	Damage Growth Detection of Practical Impact Active Sensing System N. Nakamura (Fuji Heavy Industries Ltd.)	15:40
15:50						SHM for Bolted Joint Portion Using BOCCA System T. Yari (Mitsubishi Heavy Industries, Ltd.)	15:50
16:00	Influence of the Pretreatment on the Mechanical Properties of the Recycled CFRP H. Koyama (The University of Tokyo)	Enhancement of Mechanical Properties of Carbon/Carbon Composites by Flat Braided Reinforcement Aly-Hassan S. Mohamed (Kyoto Institute of Technology)	Development of Crush Energy Absorber Using Bamboo Fiber Reinforced Biodegradable Plastic K. Akahori (Nihon University)	Observations on Tensile and Compressive Behavior for Off-axis Fiber Composites Yi Xiao (ACE TeC-JAXA)			16:00
16:10							16:10
16:20	End						End

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

**16:20-17:00**

Short Oral Presentation by Poster Presentators  
2 min. for each power point presentation  
(3 pages at maximum, no movie, without Q&A)

**17:00-17:40**

Poster Q&A Period  
(Each presenter is required to stay in front of posters for discussion)

<b>Poster Session-1 (Room 607)</b>	<b>Poster Session-2 (Room 608)</b>
<i>Chair: S. Yashiro</i>	<i>Chair: Y. Okabe</i>
(PS-P1) Fabrication and Mechanical Properties of JUTE/PLA Composite Using Braiding Technique M. Sakata (Kyoto Institute of Technology)	(PS-P15) Raman Spectroscopic Study of Phase Transformation Toughening in Polycrystalline Zirconia K. Fukatsu (Kyoto Institute of Technology)
(PS-P2) Effect of Fabric Density on the Tensile Properties of Fully-green Composites Reinforced with Ramie Woven Fabrics R. Nakamura (Yamaguchi University)	(PS-P16) Raman Piezo-Spectroscopic Study of Stress Distribution in CaMoO <sub>4</sub> /Si Thin Film Materials Runtao Li (Kyoto Institute of Technology)
(PS-P3) Mechanical Properties of kenaf/PLA cross-ply laminated composites S. Sakamoto (Yamaguchi University)	(PS-P17) Confocal Raman Spectroscopic Analysis of Degradation Mechanism in Artificial Hip Joints Y. Takahashi (Kyoto Institute of Technology)
(PS-P4) Characterization of Nonlinear Behavior of CFRP Laminates under Off-axis Tension and Compression Loadings S. Yoshida (Tokyo University of Science)	(PS-P18) Mechanical Properties and Microstructure of Porous Titanium for Bone Tissue Fabricated by SPS Method Y. Iwasa (Nagoya Institute of Technology)
(PS-P5) Experimental Evaluation of Heat Radiation Component Using a High Thermal Conductivity CFRP S. Ogihara (Tokyo University of Science)	(PS-P19) A Piezospectroscopic Approach to Stress Intensity Assessment in Single-crystalline and Polycrystalline Ceramics S. Yano (Kyoto Institute of Technology)
(PS-P6) Optimum Implant Length of Carbon Fiber in Adhesive Polymer on Tensile Test Y. Kamiya (Tokai University)	(PS-P20) Optical Losses of Small-diameter Optical Fibers Embedded in CFRP Laminate T. Nakamura (The University of Tokyo)
(PS-P7) Bending Properties of CF/GF Fiber Hybrid Multi-axial Warp Knitted Fabric Composite Materials T. Sugie (Kyoto Institute of Technology)	(PS-P21) Quantitative Analysis of Anelastic Recovery in Pure Magnesium Using Acoustic Emission Li Yunping (The University of Tokyo)
(PS-P8) Design of Braided Composite Pipes A. Ohtani (Kyoto Institute of Technology)	(PS-P22) Damage Identification in CFRP Laminates Using Broadband Ultrasonic Waves F. Nakayama (The University of Tokyo)
(PS-P9) A Combined Experimental/Computational Approach to Evaluating the Interfacial Deformation and Fracture in Fiber-reinforced Composites K. Hemmi (The University of Tokyo)	(PS-P23) Development of Noise Reduction Technique for AE Monitoring during Plasma Spray Coating Process K. Ito (The University of Tokyo)
(PS-P10) Tensile Strength and Fracture Toughness of Paper-Based Friction Material T. Wada (Shizuoka University)	(PS-P24) Health Monitoring of CFRP Structures Using Electrical Resistance Change Method N. Hirai (Tokyo Institute of Technology)
(PS-P11) Purpose and Target of the Development of Carbon Fiber Reinforced Thermoplastics	(PS-P25) Application of Statistical Damage Detection to CFRP Panel-stringer Structure K. Takahashi (Tokyo Institute of Technology)
(PS-P12) Mechanical Properties of Composite Nylon6 with Powders Dispersed of 18-8 Stainless Steel for Exterior Application Y. Ebihara (Tokai University)	(PS-P26) Combination of AE Technology and Displacement Measurement System to Monitor Composite Pressure Vessel H. Z. Hui (Harbin Institute of Technology)
(PS-P13) Improvement of the Mechanical Properties of Recycled CFRP T. Okazumi (The University of Tokyo)	(PS-P27) Responsiveness of Mover Device Driven by LaNi <sub>5</sub> Hydrogen Storage Alloy Film A. Shimazu (Tokai University)
(PS-P14) Proposal of Commuter Bus Using CFRP for Sustainable Transportation K. Satoh (The University of Tokyo)	