



WORKSHOP ON COMPOSITES

Thursday, July 5, 2018

8:30	<p>Opening Sattements:</p> <p>Professor Asami Nakai, Co-chair, Gifu Unviersity, Japan</p> <p>Professor Louis Laberge Lebel, Co-chair, Ecole Polytechnique Montreal, Canada</p>
8:40	<p>Keynote Speaker (chair: L Laberge Lebel,): Canada-Japan collaboration on composites research- Past, Present and Future & Composite Springs Made by 4D Printing</p> <p>Professor Suong Van Hoa, Concordia Center for Composites, Canada</p>

Session I	Manufacturing I, Chair:			
	Authors	Affiliation	Presentation Title	Paper ID
9:20	T. Kosaka, Y. Handa, K. Kusakawa	Kochi University of Technology	In-Situ Monitoring of Strain Distribution of FRP by Rayleigh Scattering-Based Optical fiber sensors and Their Applications	abs018
9:40	N. Zobeiry, C. Mobuchon, C. Duffner, C. Li, K Gordnian, R. Thorpe, S. Chatterjee, C. Keulen, A. Poursartip	University of British Columbia	A Multifaceted Approach for Process Characterization of Polymer-matrix Composites	abs023
10:00	K. Hara, T. Uchida, Y. Watanabe, Y. Urashima, N. Nanami, K. Kuroda, H. Hamada, A. Goto, H. Nakatani	UCHIDA co.,Ltd,	Influence of Up- and Down Cutting Process on Interlaminar Shear Strength of CFRP Plates	abs028

10:20	Refreshment Break
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Session II	Applications, Chair:			
	Authors	Affiliation	Presentation Title	Paper ID
10:40	T. Takahashi, M. Ueda, N. Ui, A. Ohtani	Nihon University	Hybrid-fiber Reinforced Thermoplastic Rivet	abs001
11:00	L Laberge Lebel, V. Fortier	Polytechnique Montréal	Fastening Composite Structures Using Carbon Fiber/Polyetherimide Rivets.	abs015
11:20	A. Ohtani	Kyoto Institute of Technology	Fracture Behavior and Mechanical Properties of Rivet Joint by using Ultrasonic Vibration with c-FRTP	abs035
11:40	K. Tomiyama, T. Sagimori, T. Kosaka, K. Kusakawa	Kochi University of Technology	Optimum Design of Airfoil Siffeners of CFRP Wing for a Small UAV	abs021

12:00	Lunch break
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12:30	Poster Competition
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Session III	Analysis I, Chair:			
	Authors	Affiliation	Presentation Title	Paper ID
14:00	H.T. Dat and N. Takano	Keio University	Stochastic Nonlinear Analysis of Composites by First-Order Perturbation Based Homogenization Method	abs042
14:20	C.G Merrett	Clarkson University	Stress Propagation in a Viscoelastic Composite Structure Subject to Large Deformations	abs008
14:40	T. Warabino, H. Nakatani, K. Osaka	Osaka City University	Estimation of R-curve for Mode II Interlaminar Fracture Toughness by using CFRP Laminates with Fibre Discontinuities	abs025
15:00	R. Aoki, T. Yokozeki	The University of Tokyo	Fatigue Modeling for Intra-laminar Damage of Composite Materials Based on Continuum Damage Mechanics	abs031
15:20	Chun Li and Gang Li	National Research Council Canada	Progressive Failure Prediction of a Bonded Composite Component	abs016

15:40	Refreshment Break			
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Session IV	Analysis II, Chair:			
	Authors	Affiliation	Presentation Title	Paper ID
16:00	S. Kurata, K. Mukoyama, T. Kurashiki, Y. Nakanishi, X. Li, K. Hanaki, K. Kusudo, T. Katayama	Osaka University	Evaluation of Damage Development and Damping Characteristics for Woven Composites under Tensile Loading	abs011
16:20	Y. Suzuki, K. Matsumoto, Y. Nakanishi	Mie University	An Estimation of Material Damping Properties for Polyarylate Woven Fabric Composites	abs006
16:40	K. Ueda, H. Nakatani, K. Osaka	Osaka City University	Large Deformation Behavior of Angle-Plied CFRP Laminates by inserting PA Mesh as Interlayer	abs024
17:00	Company profiles, Chair: Canon Inc.; Hokuriku Fiber Glass Co. Ltd; KADO Corporation; KAJI GROUP; Maru Hachi Corporation; Murata Machinery Ltd.; Satoh Machinery Works Co. Ltd; Toyo Electric Co. Ltd.; UCHIDA Co. Ltd.; GLOBERIDE Inc.			
17:30	Moving to the banquet place by bus			

18:30	Cconference Dinner at the Hidatei Hanaougi			
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20:30	Moving back to the Hotels by bus			
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Friday, July 6, 2018

Materials, Chair:				
Session V	Authors	Affiliation	Presentation Title	Paper ID
8:40	G. Sasaki, K. Nogichi, K. Sugio	Hiroshima University	Development of TiB ₂ / Steel Composites with High Thermal Conductivity	abs029
9:00	Y. Gendreau, M-C. Bélanger, L.L. Lebel	Polytechnique Montréal	Effect of Tailored Fiber Placement Parameters on Carbon Fiber/Epoxy Composite	abs017
9:20	B. Ashrafi, J. Crodua, M. Jakubinek, Y. Martinez-Rubi, D. Park, B. Simard, A. Yousefpour	National Research Council Canada	Evaluation of Breakdown Current Density of Carbon Nanotube Sheets and Their Composites for Lightning Strike Protection	abs013
9:40	S. Manomaisantiphap, V. Kumar, T. Yokozeki	The University of Tokyo	Electrically Conductive Layerwise-Hybrid CFRP for Lightning Strike Application	abs030
10:00	M. Matsushita, M. Kitamura, S.Nojima, Y. Komaki, H. Hamada	YUHO CO., LTD.	Research of Aramid/CF Hybrid Composite Material	abs002
10:20	M. Takagi, T. Motochika	Kajirene Inc.	Development of Commingled Yarn for Textiled Thermoplastic Composites.	abs034

10:40	Refreshment Break			
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Testing I, Chair:				
Session VI	Authors	Affiliation	Presentation Title	Paper ID
11:00	G. Fortin, E. Elbadry, H. Hamada	Kyoto Institute of Technology	Energy Absorption Properties of Braided Glass Fiber Rod-Reinforced Cardboard Panels	abs043
11:20	T. Kinoshita, T. Kurashiki, K.Mukoyama, K.Hanaki, M.Zako, X.Li, S.V.Lomov	Osaka University	Estimation of Mechanical Characterization of Woven CFRTP under Tensile Loading Based on Acoustic Emission	abs012
11:40	F. Robitaille, H Zhang, J. Ocana Martins, C. Primeau, C. U. Grosse, C.Ibarra-Castanedo, S. Sfarra, X.P.V. Maldague	University of Ottawa	Non-destructive Thermographic Inspection of Multilayer Dry Fiber Reinforcement Stacks for Polymer Composites	abs014

12:00	Lunch break			
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Session VII	Testing II, Chair:				
		Authors	Affiliation	Presentation Title	Paper ID
	13:00	G. Suka, K. Deguchi, T. Kosaka, K. Kusakawa	Kochi University of Technology	Real-time Optimization of Cure Process of Thick FRP Plates	abs020
	13:20	A. Schiavone, I.T. Garces, G.W. Melenka, C. Ayranci	University of Alberta	Achieving Structural Health Monitoring Using Additive Manufacturing	abs004
13:40	N. Nanami, T. Uchida, Y. Watanabe, K. Hara, K. Kuroda, H. Hamada, A. Goto, H. Nakatani	Gifu University	The Essentials of the Training Kit to Improve Trimming Skills in the Autoclaved CFRP Products	abs032	
Session VIII	Manufacturing II, Chair:				
		Authors	Affiliation	Presentation Title	Paper ID
	14:00	A. Kawakami, H. Yamasaki, T. Kosaka, K. Kusakawa	Kochi University of Technology	Evaluation of Influence of Molding Conditions on Process-Induced Strain of Reinforcements of GFRP by FEM Analysis and In-Situ Strain Measurement	abs019
	14:20	T. Uozumi, S. Ikezaki, M. Tangawa	Murata Machinery, Ltd.	Improving Filament Winding Productivity by Multiple Feeds	abs033
14:40	T. Banno, A. Nakai	Gifu University	Bending Formability on Continuous FRTP Cylindrical Pipe	abs039	
15:00	Refreshment Break				
Session IX	Manufacturing III, Chair:				
		Authors	Affiliation	Presentation Title	Paper ID
	15:20	I.T. Garces, E. Aznarte, T.-D. Ngo, G.W. Melenka, C. Ayranci	University of Alberta	Additive Manufacturing Bio-based Filaments Reinforced with Cellulose Nanocrystals	abs003
15:40	N. Ikuta, T. Morii, A. Ohnishi	Shonan Institute of Technology	Effect of Silane-induced Interphase on Mechanical Properties of GFRP	abs056	
16:00	Keynote Speaker (chair: Asami Nakai): With Composites - Past, Present and Future - Professor Hiroyuki Hamada, Kyoto Institute of Technology, Japan				
16:40	Closing Ceremony: Professor Asami Nakai, Co-chair, Gifu University, Japan Professor Louis Laberge Lebel, Co-chair, Ecole Polytechnique Montreal, Canada				

Poster Session between 12:30 pm – 14:00 pm on July 5th

absID	Authors	Affiliation	Title
abs026	Y. Sei, H. Nakatani, K. Osaka	Osaka City University	Damage Behavior of CFRP/Titanium Mesh Laminates under Three-point Bending Loading
abs027	K. Nakamura, H. Nakatani, K. Osaka	Osaka City University	Evaluation of Resin Impregnation Behavior in Thick FRP with Corner during VaRTM Process
abs036	R. Hori, N. Tran, K. Goto, T. Uozumi, A. Nakai	Gifu University	Compressive Mechanical Property of Braided CFRTP Pipe at Elevated Temperature
abs037	R. Hirai, R. Tanaka, K. Okayasu, A. Nakai	Gifu University	Effect of Molding Condition on Mechanical Properties of FRP by RTM
abs038	M. Funahashi, A. Nakai	Gifu University	Relationship between Reinforced Form of Base Material and Molding Conditions in Hybrid Molding
abs040	M. Yagi, M. Ohishi, A. Nakai	Gifu University	Development of Bending Process for Composite Pipe during Molding Process
abs041	K. Ohtake, T. Uozumi, A. Nakai	Gifu University	Effect of Reinforcing Structure of CFRP Pipe on Energy Absorption Properties.
abs044	Y. Imai, K. Nishitani, D. Zhao, Z. Xu, Y. Ma, H. Hamada	Kyoto Institute of Technology	Initial fracture of Carbon Fabric Reinforced Polyamide Composite
abs045	K. Nishitani, Y. Imai, S. Nojima, H. Hamada	Kyoto Institute of Technology	Influence of Needle Punch Density on Mechanical Properties of Jute/Glass Hybrid Composite
abs046	M.J. M. Fikry, S. Ogihara, V. Vinogradov	Tokyo University of Science	Stiffness Reduction Resulting from Matrix Cracking in FRP Laminates
abs047	Y. Itabashi, S. Ogihara, A. Nakai	Tokyo University of Science	Effect of Loading Rate on Mechanical Properties of CFRP Composites
abs048	P. Wongsriraksa, A. Nakai	Gifu University	The Effect of Molding Condition on Properties of Pultruded Carbon Fiber Reinforced Polymer Composites
abs049	C. Xu, A. Bouchemit, G. L'Espérance, L. Laberge Lebel, D. Therriault	Polytechnique Montréal	Solvent-cast 3D Printing and Secondary Metallic Infiltration for Highly Dense Metallic Structures
abs050	N. Alsinani, L. Laberge Lebel	Polytechnique Montréal	Production of Flax Polypropylene (flax/PP) Injection Moldable Pellets for Automotive Applications Using Pultrusion
abs051	P. C. Gómez, T. Pelzmann, L. Laberge Lebel, E. Robert	Polytechnique Montréal	Flame Attack on Protected Carbon/Epoxy Laminates – Small-scale Material Screening for Potential Use as Aircraft Powerplant Firewalls
abs052	V. Rohart, L. Laberge Lebel, M. Dubé	Polytechnique Montréal	Metal-to-thermoplastic Adhesion Improvement in a Resistance Welded Composite Joint
abs053	B. Burgarella, L. Laberge Lebel	Polytechnique Montréal	Modelling the Dry Yarn Damage Evolution During Passage on Pulleys
abs054	J. Brazeau-Séguin, J. Levesque, L. Laberge Lebel	Polytechnique Montréal	Modelling 3D Interlock Fabrics Using Elliptic Yarn Section with Quadrant-parametric Equations
abs055	X. Sun, N. Yada, H. Koga, A. Senba	Gifu University	Evaluation of Deformation Characteristic by Numerical Analysis of Morphing Wing Flap Structure