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ICCM19 TOPICS

Click the following topic to find the relative papers:

PLENARY
APPLICATIONS
APPLICATIONS - ENERGY
AUTOMATED COMPOSITES MANUFACTURING
BIO & GREEN
BIOCOMPOSITES
BIO-INSPRED COMPOSITES
BIOMEDICAL COMPOSITES
BISTABLE LAMINATE
BONDED JOINTS
CARBON MATRIX & BRAIDED COMPOSITES
CARBON NANOCOMPOSITES
CARBON, NANOTUBES & GRAPHENES
CERAMIC MATRIX COMPOSITES
CHARACTERIZATION
CMC AND MMC
COMPOSITES FOR BIOMEDICAL APPLICATIONS
COMPOSITE IN CIVIL INFRASTRUCTURES
COMPOSITES IN TURBINES, PIPES AND VESSELS
COMPOSITE STRUCTURES
DEFORMATION
DETECTION & DAMAGE
DURABILITY AND AGING
EFFECT OF RESIDUAL STRESSES FROM MANUFACTURING ON PROPERTIES
ENERGY DEVICES
EXPERIMENTAL TECHNIQUES
FATIGUE OF COMPOSITES
FORMING OF ADVANCED COMPOSITES & ENGINEERING FABRICS
FRACTURE AND DAMAGE
GREEN COMPOSITES
HEALTH MONITORING
HEALTH MONITORING, MULTI-FUNCTIONAL AND NDE
IMPACT & DYNAMIC RESPONSES
IMPACT FATIGUE AND DURABILITY
INTERFACE
INTERLAMINAR REINFORCEMENTS
JOINING
JOINTS
LCM
- CHARACTERIZATION
- PERMEABILITY
- PROCESSING
- PROCESS MODELING
- SATURATION
LIFE CYCLE ANALYSIS & RELIABILITY
MECHANICAL BEHAVIOR
MECHANICAL PROPERTIES
MICROMECHANICAL MODELING SYMPOSIUM
MICROSTRUCTURES
METAL MATRIX COMPOSITES
MODELING
MODELLING AND SIMULATION
MODELLING OF PLATES & SHELLS
MULTI-FUNCTIONAL COMPOSITES SYMPOSIUM
MULTI-FUNCTIONAL NANO-COMPOSITES
MULTI-FUNCTIONAL SMART COMPOSITES
MULTI-SCALE MODELING
NANOCLAYS
NANOCOMPOSITES
NATURAL FIBER COMPOSITES
NON DESTRUCTIVE EVALUATION
OUT OF AUTOCLAVE MANUFACTURING
PHYSICAL PROPERTIES
PREFORMS
PROCESSING
REPAIRS AND MACHINING
STEPHEN TSAI AWARD
STIMULUS RESPONSIVE POLYMER & COMPOSITES SYMPOSIUM
STIMULUS RESPONSIVE POLYMER & COMPOSITES & INTERFACES
STRUCTURAL HEALTH MONITORING
STRUCTURAL OPTIMIZATION
STRUCTURAL RESPONSE & DESIGN
SYMPOSIUM ON MARINE COMPOSITES
TESTING
TEXTILE COMPOSITES
THERMO-PLASTIC COMPOSITES
TSAI PANEL
PLENARY

Anoush Poursartip (University of British Columbia):
50 years of Advanced Composites Research and Innovation: A Canadian Perspective

Markus J. Buehler (Massachusetts Institute of Technology):
Hierarchical Biocomposites by Design

Ludwik Leibler (Matière Molle et Chimie, ESPCI):
Vitrimer

Goichi Ben (Nihon University):
Fabrication and Evaluation of FRTP using in-situ polymerizable PA6 with AvRTM

Anthony Wass (University of Michigan):
Virtual Testing of Composites: Opportunities and Challenges

Xiaosu Yi (AVIC Composite Corporation Ltd):
How to make high performance structural composites multifunctional

Michael Wisnom (University of Bristol):
The challenge of predicting failure in composites

Mohini Sain (University of Toronto):
A review: Carbon Fiber Reinforced composites for automotive
APPLICATIONS

APPLICATIONS OF COMPOSITE TECHNOLOGIES TO AEROSPACE SYSTEMS IN KARI
Keynote: Seung Jo Kim (Korea Aerospace Research Institute)

APPLICATION OF X-WEB TECHNOLOGIES FOR IMPROVED SHEAR TRANSFER IN WIND TURBINE BLADES UPWARDS OF 100 METERS
Ryan Michael Barnhart (Wetzel Engineering Inc.), Kyle Wetzel (Wetzel Engineering Inc.)

DELAMINATION ARREST FASTENERS IN AIRCRAFT COMPOSITE STRUCTURES
Kuen-yuan Lin (University of Washington), Luke I Richard (University of Washington), Wenjing Liu (University of Washington)

PROPERTIES OF PHENYLETHYNYL IMIDE COMPOSITES FABRICATED VIA VARTM
Roberto J. Cano (NASA), Sayata Ghose (The Boeing Company)

FEASIBILITY STUDY ON A LARGE CHOPPER DISC FOR A TOF-SPECTROMETER
Valeria Antonelli (Technische Universitat Munchen), Wiebke Lohstroh (Technische Universitat Munchen), Horst Baier (Technische Universitat Munchen)

THE RESEARCH PROGRESS FOR THE STRUCTURAL AND FUNCTIONAL MATERIAL OF FOAMED METAL IN THE PREPARATION AND APPLICATION
Keju Ji (Nanjing University of Aeronautics and Astronautics)

DEVELOPMENT OF CARBON FIBRE REINFORCED EPOXY COMPOSITES WITH CONTROLLABLE STIFFNESS
Henry Maples (Imperial College of Science), Charnwit Tridech (Imperial College of Science), Alexander Bismarck (Imperial College of Science), Paul Robinson (Imperial College of Science)

MOVING TO COMPOSITE FUSELAGE DESIGN
Francisco Kioshi Arakaki (EMBRAER S.A.)

INNOVATIVE INTEGRAL COMPOSITE AIRCRAFT STRUCTURES
Kristian Zimmermann (EADS Innovation Works), Tamas Levente Havar (EADS Innovation Works)

A NOVEL CONCEPT FOR CONFORMAL LOAD-BEARING ANTENNA STRUCTURES USING DISSIMILAR COMPOSITES
Jasim Ahamed (Royal Melbourne Institute of Technology), Chun H Wang (RMIT University)
EFFECT OF MICROSPHERE CONTENT ON FIRE PERFORMANCE AND THERMOMECHANICAL PROPERTIES PHENOLIC RESOLE SYNTACTIC FOAM COMPOSITES
Mounia Bouslah (Ecole Centrale de Lyon), Michelle Salvia (Ecole Centrale de Lyon), Isabelle Descheres (Institut Textile et Chimique de Lyon), Bruno Berthel (Ecole Centrale de Lyon), Stephane Benayoun (Ecole Centrale de Lyon)

OVERVIEW AND DYNAMISM OF THE WORLDWIDE COMPOSITES MARKET
Daniel Ageda

THERMAL STABILITY OF CFRP MIRRORS FOR SPACE TELESCOPES UNDER THERMAL CYCLE TEST
Tomohiro Kamiya (Japan Aerospace Exploration Agency), Shin Utsunomiya (Japan Aerospace Exploration Agency), Ryuzo Shimizu (Japan Aerospace Exploration Agency)

BONDING OF CFRP PRIMARY AEROSPACE STRUCTURES: OVERVIEW ON THE TECHNOLOGY STATUS IN THE CONTEXT OF THE CERTIFICATION BOUNDARY CONDITIONS ADDRESSING NEEDS FOR DEVELOPMENT
Thomas Kruse (Airbus Operations GmbH - Germany)

FLOW BEHAVIOR OF ALUMINIUM-BORON CARBIDE COMPOSITE BY DIFFERENTIAL STRAIN RATE COMPRESSION TEST
Srinu Gangolu (Indian Institute of Technology, Bombay), A Gourav Rao (Indian Institute of Technology, Bombay), N Prabhu (Indian Institute of Technology, Bombay), V P Deshmukh (DRDO), B P Kashyap (Indian Institute of Technology, Bombay)

DESIGN CONSTRAINTS OF COMPOSITE LATTICE CYLINDERS FOR AEROSPACE APPLICATIONS
Takahira Aoki (The University of Tokyo), Hajime Yamazaki (The University of Tokyo), Tomohiro Yokozeki (The University of Tokyo), Keita Terashima (Japan Aerospace Exploration Agency), Toru Kamita (Japan Aerospace Exploration Agency)

EXPERIMENTAL INVESTIGATION ON ENERGY ABSORBING PRESSURISED COMPOSITE TUBES
Tiansong Hou (University of New South Wales), B. gangadhar Prusty (University of New South Wales), Garth Morgan Kendall Pearce (University of New South Wales), Donald Wainwright Kelly (University of New South Wales), Rodney Thomson

EFFECT OF ADHESIVELY BONDED COMPOSITE PATCH STIFFNESS ON FATIGUE CRACK GROWTH IN AN ALUMINIUM FUSELAGE PANEL
Reewanshu Chadha (Drexel University), Tein-min Tan (Drexel University), Jonathan Awerbuch (Drexel University)
THERMOPLASTIC COMPOSITES FROM REACTIVE RESIN SYSTEMS - CHALLENGES AND OPPORTUNITIES
Mingfu Zhang (Johns Manville)

MOLDING AND MECHANICAL PROPERTY OF FIBER BRAIDS RODS
Ma Yan (Donghua University, Shanghai), Yuqiu Yang (Donghua University), Hiroyuki Hamada (Kyoto Institute of Technology), Weiguang Song (Kyoto Institute of Technology), S Matsubara ()

DAMAGE SENSING IN FIBRE-REINFORCED COMPOSITES USING CARBON NANOTUBE NETWORKS BY SPRAY COATING
Han Zhang (Queen Mary and Westfield College, University of London)

COMPOSITE PRESSURE VESSELS FOR COMMERCIAL APPLICATIONS
Luis Andre pinto Oliveira (Pole for Innovation in Polymer Engineering), Joao Pedro Nunes (Universidade do Minho), Joao Francisco Silva (Instituto Politecnico do Porto), Bruno Henrique Rodrigues Barros (), Luis Manuel Amorim (), Jose Miguel Vasconcelos (VIDROPOL, S.A.)

METALIZED CARBON FIBERS FOR SOLDERABLE AND WEAR-RESISTANT COMPOSITE MATERIALS
Matthias Nier, Toni Böttger, Falko Böttger-hiller, Daniela Nickel, Ingolf Scharf, Daisy Nestler, Bernhard Wielage, Thomas Lampke (Technische Universitat Chemnitz-Zwickau)

APPLICABILITY OF C-PLY BI-ANGLE NCF TO AIRCRAFT PARTS
Akira Kuraishi (Kawasaki Heavy Industries Ltd.), Toru Itoh (Kawasaki Heavy Industries Ltd.), Jyunichi Kimoto (Kawasaki Heavy Industries Ltd.), Sayaka Ochi (Kawasaki Heavy Industries Ltd.), Noriyoshi Hirano (Kawasaki Heavy Industries Ltd.)

SUPPRESSION OF DELAMINATION CRACK FOR THE FOAM CORE SANDWICH PANEL JOINT
Keishiro Yoshida (Kanazawa Institute of Technology), Hisayuki Kimura (Kanazawa Institute of Technology), Yasuo Hirose (Kanazawa Institute of Technology), Akira Kuraishi (Kawasaki Heavy Industries Ltd.)

EUROPEAN COMPOSITES DEVELOPMENTS FOR LAUNCHERS APPLICATIONS
Rafael Bureo dacal (European Space Agency)

EXPERIMENTAL AND ANALYTICAL STUDY OF COMPOSITE LATTICE STRUCTURE FOR FUTURE JAPANESE LAUNCHER
Keita Terashima (Japan Aerospace Exploration Agency), Toru Kamita (Japan Aerospace Exploration Agency), Gaku Kimura (), Toshiyuki Uzawa (), Takahira Aoki (The University of Tokyo), Tomohiro Yokozeki (The University of Tokyo)
COMPOSITE PHASE CHANGE MATERIALS WITH ENHANCED THERMAL DIFFUSIVITY
Adam Dominiak (Technical University of Warsaw), Jan Alexander Blaszczyk (Technical University of Warsaw)

EFFECT OF MANUFACTURING DEFECTS AND THEIR UNCERTAINTIES ON STRENGTH AND STABILITY OF STIFFENED PANELS
Frank F Abdi (AlphaSTAR Corporation), Jean-philippe Marouzé (Bombardier)

BIOMASS BASED GREEN COMPOSITES: FABRICATION AND PERFORMANCE EVALUATION
Vidhya Nagarajan (University of Guelph), Amar K Mohanty (University of Guelph), Manjusri Misra (University of Guelph)

ARTIFICIAL NEURAL NETWORKS MODELING OF THE VISCOELASTIC PROPERTIES OF VAPOR-GROWN CARBON NANOFIBER/VINYL ESTER NANOCOMPOSITES
Osama Y Abuomar (Mississippi State University), Sasan Nouranian (Mississippi State University), Roger King (Mississippi State University)

DESIGN AND MANUFACTURE OF ANISOTROPIC HOLLOW BEAM USING THERMOPLASTIC COMPOSITES
Tsuyoshi Matsuo (The University of Tokyo), Kosuke Takayama (Tokyo University), Satoshi Nagoh (Toyobo Co., Ltd.), Kohei Kiriyama (), Jun Takahashi (The University of Tokyo), Takahiro Hayashi ()

DESIGN, MANUFACTURING AND TESTING OF A CYLINDRICAL DRUM-SHELL USING A SANDWICH STRUCTURE
Ajith Damodaran (Anna University), Larry Lessard (McGill University), Suresh babu Annamalai (Anna University), Gary Scavone (McGill University), Hossein Mansour (McGill University)

MATERIALS FOR LIGHTWEIGHT RADIATION SHIELD FOR CANADIAN POLAR COMMUNICATIONS AND WEATHER (PCW) SATELLITE MISSION
Adebayo Emmanuel (University of Manitoba), Raghavan Jayaraman (University of Manitoba), Philip Andrew Ferguson (Magellan Aero), Raymond Harris (Magellan Aero)

ENVIRONMENTAL-FRIENDLY FOOTBRIDGE MADE OF CFRP, GFRP AND TIMBER
Urs Otto Meier (Empa, Swiss Federal Laboratories for Materials Science & Technology)

STUDYING THE HETEROGENEITY OF DISCONTINUOUS FIBER COMPOSITES USING A NEW FULL-FIELD STRAIN MEASUREMENT SYSTEM
Kevin Johanson (University of Nottingham), Lee T Harper (University of Nottingham), Michael Johnson (University of Nottingham), Andrew Kennedy (University of Nottingham), Nicholas A Warrior (University of Nottingham)
NUMERICAL DESIGN OPTIMISATION OF A COMPOSITE REACTION LINK
Yang Yang (The Welding Institute (TWI)), Clement Schuhler (The Welding Institute (TWI)), Chris M Worrall (The Welding Institute (TWI))

MODELING THE FIRE STRUCTURAL PERFORMANCE OF ALUMINUM AND REINFORCED POLYMER COMPOSITES
Everson Kandare (Royal Melbourne Institute of Technology)

LIGHTNING STRIKE PROTECTION FOR COMPOSITE LAMINATES BY PITCH BASED CARBON FIBER SKIN
Norihiko Hosokawa (Mitsubishi Plastics Inc.), Teruo Ooto (Mitsubishi Plastics Inc.), Shinya Kubo (Mitsubishi Plastics Inc.), Anzai Anzai (Mitsubishi Plastics Inc.), Akira Nakagoshi (Mitsubishi Plastics Inc.), Akihiko Yoshiya (Mitsubishi Plastics Inc.)

EXACT BUCKLING SOLUTION OF COMPOSITE WEB/FLANGE ASSEMBLY
Jeremie Sauve (École de technologie supérieure - Université du Québec), Martine Dub (École de technologie supérieure - Université du Québec), Guillaume Corriveau (Bombardier), Franck Dervault (Borland Software Corporation)

APPLICATION OF FOAM CORE TO CFRP SANDWICH MIRRORS FOR SPACE TELESCOPES
Shun Honda (Tokyo University of Science), Masashi Ishikawa (Tokyo University of Science), Yasuo Kogo (Tokyo University of Science), Tomohiro Kamiya (Japan Aerospace Exploration Agency), Shin Utsunomiya (Japan Aerospace Exploration Agency)
APPLICATIONS – POSTER

MECHANICAL CHARACTERIZATION OF NONWOVEN COMPOSITES WITH PET HOLLOW FIBERS AND ELASTOMERIC FIBERS FOR CUSHION MATERIALS
Ki young Kim, Hyo jin An, Dae young Lim, Woo lee Park

COST-SAVING POTENTIALS FOR CFRP PARTS IN EARLY DESIGN STAGES
Kostantin Horejsi, Johannes Noisternig, Olaf Koch, Ralf Schledzewski

SHAPE-ADAPTIVE COMPOSITE MARINE PROPELLERS – ANALYSIS AND OPTIMIZATION
Manudha Thiyunuwan Herath, Sundararajan Natarajan, B. gangadhara Prusty, Nigel St. John

PREPARATION AND THERMAL CHARACTERISTICS OF MORTAR CONTAINING HEXADECANE/XGNP SSPCM
Sughwan Kim, Jungki Seo, Okyoung Chung, Sumin Kim

THE APPLICATION OF MEDIUM TEMPERATURE CURED WITH HIGH GLASS TRANSITION TEMPERATURE RESIN SYSTEM ON BICYCLE RIMS
Peichi Chen

DESIGN, MANUFACTURING AND TESTING OF A SMALL-SCALE COMPOSITE MORPHING WING
Francois Michaud, Simon Joncas, Ruxandra Botez

DEGRADATION SMC UNDER HOT WATER IMMERSION
He Luan, Farzana Khan, Kotatsu Hamano, Yang Yuqiu, Yiping Qiu, Hiroyuki Hamada

SAHPE-MEMORY COMPOSITE ACTUATOR WITH SMA AND SMP
Hisaaki Tobushi, Kohei Takeda, Ryosuke Matsui, Syunichi Hayashi

EVALUATION OF THERMAL CYCLING INFLUENCE ON PEI/CARBON FIBER COMPOSITES WITH AEROSPACE APPLICATION
Natassia Lona Batista, Edson Cocchieri Botelho, Koshun Iha

THERMOELECTRIC PROPERTIES OF NI/TIO2-X COMPOSITES
Yun Lu, Katsuhiro Sagara, Yusuke Matsuda, Liang Hao, Hiroyuki Yashida, Jinxiang Chen

REINFORCING AND COMPATIBILIZING EFFECT OF NANO SIZE MONTMORILLONITE ON HIGH DENSITY POLYETHYLENE-POLYAMIDE6 COMPOSITES
Hajnalka Hargitai

MECHANICAL PROPERTIES OF THICK COMPOSITE PIPES REINFORCED WITH MULTILAYER BRAID
Yusuke Shimizu, Asami Nakai, Akio Ohtani, Uozumi Tadashi, Kinzo Hashimoto
Applications – Energy

SUBCOMPONENT TESTING FOR ROTORBLADES OF WIND TURBINES
Arno Van Wingerde (Fraunhofer IWES), Florian Sayer (Fraunhofer IWES), Eric Putnam (Fraunhofer IWES), Falko Bürkner (Fraunhofer IWES), Alexandros Evangelos Antoniou (Fraunhofer IWES)

THE ANCHORING OF A RETROFIT REINFORCEMENT CONCEPT IN THE TRAILING EDGE OF WIND TURBINE BLADES
Pietro Bortolotti (Technical University of Denmark), Konstantinos N. Anyfantis (Technical University of Denmark), Christian Berggreen (Technical University of Denmark), Mikkel Lagerbon, Raphael Sajous

ENERGY HARVESTING FROM FLUID FLOW USING A VERTICAL COMPOSITE PIEZOELECTRIC LEAF-STALK CONFIGURATION
Arvind Deivasigamani (Royal Melbourne Institute of Technology), Jesse Mark Mccarthy (RMIT University), Sabu John (RMIT University), Simon Watkins (RMIT University), Floreana Coman

HYDROGEN ADSORPTION CHARACTERISTICS OF THE PARTICLES REINFORCED PHENOLIC FOAMS
Seung a Song (Chonbuk National University), Seong su Kim (Chonbuk National University)
AUTOMATED COMPOSITES MANUFACTURING

FORM-FLEXIBLE HANDLING TECHNOLOGY FOR AUTOMATED PREFORMING
Christian Löchte, Holger Kunz, Raphael Schnurr, Franz Dietrich, Annika Raatz, Klaus Dilger, Klaus Dröder (Technische Universität Carolo-Wilhelmina Braunschweig)

FORM-FLEXIBLE HEATING DEVICES FOR INTEGRATION IN A PREFORM GRIPPER
Holger Kunz, Christian Löchte, Fabian Fischer, Klaus Dröder, Klaus Dilger (Technische Universität Carolo-Wilhelmina Braunschweig)

LOW-ENERGY ELECTRON BEAM CURED THERMOSET TAPE PLACEMENT
Dilmurat Abliz (Technische Universität Clausthal), Yugang Duan (Xi'an Jiaotong University), Xinning Zhao (Xi'an Jiaotong University), Xiaolong Liu (Xi'an Jiaotong University), Dichen Li (Xi'an Jiaotong University)

MODELLING THE EFFECT OF GAPS AND OVERLAPS IN AUTOMATED FIBRE PLACEMENT (AFP) MANUFACTURED LAMINATES
Xiangqian Li (University of Bristol), Stephen Richard Hallett (University of Bristol), Michael R Wisnom (University of Bristol)

IMPACT OF LAYUP RATE ON QUALITY OF FIBER STEERING/CUT-RESTART IN AUTOMATED FIBER PLACEMENT PROCESS
Jihua Chen (National Research Council Canada), Teresa Chen-keat (), Mehdi Hojjati (Concordia University), Alexander J Vallee (), Marc-andre Octeau (Natural Resources Canada), Ali Yousefpour (National Research Council Canada)

MODELLING SLIT TAPE DEPOSITION DURING AUTOMATED FIBRE PLACEMENT
Fabrice Helenon (National Composites Centre), Dirk Lukaszewicz (BMW Group), Dmitry Ivanov (University of Bristol), Kevin Potter (University of Bristol)

DESIGN, DIMENSIONING AND AUTOMATED MANUFACTURING OF PROFILED COMPOSITE DRIVESHAFTS
Florian Lenz (Technische Universität Dresden)

STUDY ON PRESSURE CONTROL OF AUTOMATED FIBER PLACEMENT PROCESS
Junfei Li (Nanjing University of Aeronautics and Astronautics), Chao Song (Nanjing University of Aeronautics and Astronautics), Xianfeng Wang (Nanjing University of Aeronautics and Astronautics), Jun Xiao (Nanjing University of Aeronautics and Astronautics)

ROBOTIC DRY FIBRE PLACEMENT OF 3D PREFORMS
Alvaro Silva-caballero (University of Manchester), Prasad Potluri (University of Manchester), Dhavalsinh Jetavat (University of Manchester), William Richard Kennon (University of Manchester)
THERMOPLASTIC COMPOSITES: IN-SITU CONSOLIDATION OR IN-SITU WELDING?
Dhiren K. Modi (University of Limerick), Anthony John Comer (University of Limerick), Michael Mccarthy (University of Limerick)

IMPROVING ACCURACY IN ROBOTIZED FIBER PLACEMENT
Maylis Uhart (Ecole Supérieure des Technologies Industrielles Avancées), Olivier Patrouix (Ecole Superieure des Technologies Industrielles Avancees), Yannick Aoustin (Universite de Nantes), Joseph Canou (Ecole Superieure des Technologies Industrielles Avancees)

COMPARATIVE CHARACTERIZATION OF THE TC-250 OUT-OF-AUTOCLAVE MATERIAL MADE BY HAND LAY-UP AND AUTOMATED FIBER PLACEMENT PROCESSES
Kulbir Singh Madhok (Concordia University), Ali Naghashpour (Concordia University), Suong Hoa (Concordia University)

HANDLING OF PREFORMS AND PREPREGS FOR MASS PRODUCTION OF COMPOSITES
Christian Brecher (Fraunhofer Institute for Production Technology), Michael Emonts (Fraunhofer Institute for Production Technology), Boris Ozolin (Fraunhofer Institute for Production Technology), Richard Schares (Fraunhofer Institute for Production Technology)

PROCESS PARAMETER STUDIES AND COMPARISON OF DIFFERENT PREFORM PROCESSES WITH NCF MATERIAL
Frank Härtel (Universitat Stuttgart), Peter Middendorf (Universitat Stuttgart)

INHERENT CURE OF CARBON FIBRE COMPOSITES USING THEIR ELECTRICAL RESISTANCE
Simon Antony Hayes (University of Sheffield), Peter Wilson (University of Sheffield), Evdokia Kouzaridou

RELATIONSHIP BETWEEN SLIPPING FRICTION OF PREPREG STACKS AND FORMING QUALITY OF HOT DIAPHRAGM FORMED C-SHAPED THERMOSETTING COMPOSITE LAMINATES
Jing Sun (Beihang University), Yizhuo Gu (Beihang University), Min Li (Beihang University), Yanxia Li (Beijing University of Aeronautics and Astronautics), Zuoguang Zhang (Beihang University)

EFFECT OF THE TAPE/SUBSTRATE ORIENTATION ON THE TAPE DEFORMATION DURING AUTOMATED TAPE PLACEMENT
Xavier Gagné brulotte (McGill University), Arthur Levy (McGill University), Pascal Hubert (McGill University)

MODELING OF DEFORMATION OF LAYERS IN THERMOPLASTIC COMPOSITES MANUFACTURED BY AUTOMATED FIBER PLACEMENT
Hossein Ghayoor (Concordia University), Suong Hoa (Concordia University)
SENSOR GUIDED CURE PROCESSES – A STUDY OF PRODUCTIVITY AND QUALITY OPTIMIZATION POTENTIAL
Nico Liebers, Daniel Stefaniak, Markus Kleineberg, Martin Wiedemann (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

AN EXPERIMENTAL INVESTIGATION ON BUCKLING BEHAVIOR OF VARIABLE ANGLE TOW LAMINATES SUBJECTED TO UNIFORM COMPRESSION LOAD
Aymen Marouene (Ecole Polytechnique de Montreal)

THE EFFECTS OF TRANSVERSE SHEAR DEFORMATION ON TOW STEERED COMPOSITE LAMINATES
Rainer J. Groh (University of Bristol), Paul M Weaver (University of Bristol)

DESIGN AND MANUFACTURING OF OPTIMUM VARIABLE STIFFNESS LAMINATES
Kazem Fayzbakhsh (McGill University), Mahdi Arian nik (McGill University), Damiano Pasini (McGill University), Larry Lessard (McGill University), Jihua Chen (National Research Council Canada), Ali Yousefpour (National Research Council Canada)
BIO & GREEN - POSTER

CHARACTERIZATION AND TREATMENT OF WATER HYACINTH FIBERS FOR NFRP COMPOSITES
Terence Palad Tumolva

MEAN AND VARIATION BASED FUZZY CHARACTERIZATION OF YOUNG’S MODULUS OF A FLAX/EPOXY BIOCOMPOSITE MATERIAL
Reza Soufian Khakestar, Lotfi Toubl, Luc Laperriere, Kossi Fabrice Sodoke

INFLUENCE OF FABRICATION CONDITIONS ON PROPERTIES OF PLA/PBAT WOOD COMPOSITE STRAND
Nattakarn Hongsriphan

PREPERATION AND CHARACTERIZATION OF GREEN COMPOSITE USING LACTIC ACID MODIFIED LIGNIN
Sung hoon Kim, Jongshin Park

CHARACTERISATION OF THE MECHANICAL AND THERMAL DEGRADATION BEHAVIOUR OF NATURAL FIBRES FOR LIGHTWEIGHT AUTOMOTIVE APPLICATIONS
José luis Rudeiros-fernández, James Thomason, John Liggat, Maria Soliman

SILK HYDROGEL COMPOSITE SCAFFOLD CONTAINING HYDROXYAPATITE NANOCRYSTAL
Kim Hyung hwan, Kang Min ji, Park A reum, Kim Shin hwan, Park Young hwan

POLYLACTIC ACID/HALLOYSITE NANOCOMPOSITES FILMS BY SOLVENT CASTING METHOD
Rangika Thilan De Silva, Pooria Pasbakhsh

PHOSPHORUS-CONTAINING FLAME RETARDANT COMPOSITES WITH RAMIE FIBER AND POLY(LACTIC ACID)(PLA)
Tao Yu, Yan Li

APPLICATION OF FURAN RESIN TO GREEN COMPOSITES AND THE EFFECT OF PEROXIDE ON FURAN RESIN CURING
Hiroha Tanaka, Masatoshi Kubouchi, Saiko Aoki, Terence Palad Tumolva

TENSILE PROPERTIES OF BAMBOO, JUTE AND KENAF MAT-REINFORCED COMPOSITES
Zhilan Xu, Jungang Li, Mengyuan Liao, Yuqiu Yang, Hiroyuki Hamada

IMPACT MODIFICATION OF WASTE PLASTIC/WOOD FLOUR COMPOSITES VIA STRUCTURAL MODIFICATION
Adel Ramezani kakroodi, Yasamin Kazemi, Denis Rodrigue

Organized by Canadian Association for Composite Structures and Materials (CACSMA)
NEW FLAX/EPOXY AND CF/EPOXY COMPOSITE MATERIALS FOR BONE FRACTURE PLATE APPLICATIONS: A BIOLOGICAL AND WETTABILITY STUDY
Zahra Shaghayegh Bagheri, Ihab El-sawi, Asma Amleh, Emil H. Schemitsch, Rad Zdero, Habiba Bougherara

CFRP RECYCLING USING DEPOLYMERIZATION OF ACID ANHYDRIDE CURED EPOXY RESIN
Katsuji Shibata, Mitsuru Sasaki

PROCESSING AND PROPERTIES OF NATURAL FIBERS REINFORCED THERMOPLASTIC AND THERMOSETTING COMPOSITES
Joao Francisco Silva, Joao Pedro Nunes, Ana Catarina Duro, Bruno Francisco Castro

A STUDY ON THE MECHANICAL PROPERTY OF GLASS/JUTE INTER-LAMINATE HYBRID FABRIC COMPOSITE
Shunyu Tang, Zhiyuan Zhang, Masayuki Kitamura, Yuqiu Yang, Hiroyuki Hamada

FIBRE CHARACTERISATION OF STEAM THERMAL PROCESS RECYCLED CARBON FIBRE/EPOXY COMPOSITES
Maxime Boulanghien

INFLUENCE OF POLYURETHANE SURFACE TREATMENT ON BASALT REINFORCED THERMOSETTING EPOXY RESIN MATRIX COMPOSITES: MECHANICAL AND THERMAL PROPERTIES
Yang Jiahui, Mengyuan Liao, Zhenjin Cui, Hiroyuki Hamada, Yuqiu Yang

THE RELIABILITY ANALYSIS OF THE METHYL METHACRYLATE HARDENED HYBRID POPLAR WOOD
Weidan Ding, Dexiang Wu, Ahmed Koubaa, Abdelkader Chaala, Cuicui Luo

RECYCLING OF AUTOMOTIVE SHEET METAL-FIBRE REINFORCED PLASTIC-HYBRID STRUCTURES
Bernd Siewers, Christian Lauter, Joerg Niewel, Thomas Troester

STUDY ON PROPERTIES OF COMPOSITES REINFORCED BY HEAT-TREATED GLASS FIBRES SIMULATING THERMAL RECYCLING CONDITIONS
Ulf Nagel, Chih-chuan Kao, James Thomason

ESTIMATION OF MECHANICAL PROPERTIES FOR FIBER REINFORCED COMPOSITES WITH WASTE FABRIC AND POLYPROPYLENE FIBER
Yuki Murakami, Tetsusei Kurashiki, Daiki Tanabe
EFFECT OF PLASMA SURFACE TREATMENT OF RECYCLED CARBON FIBER ON THE MECHANICAL PROPERTIES OF RECYCLED CFRP
Hooseok Lee, Yukio Ozaki, Masachika Yamane, Jun Takahashi, Isamu Oshawa

FLAX FILLED THERMOPLASTIC BIOCOMPOSITE DEVELOPMENT FOR AUTOMOTIVE APPLICATIONS
Stephen Meatherall, Frank Wheeler

BACTERIAL CELLULOSE-SYNTHETIC POLYMER COMPOSITES FOR BONE TISSUE ENGINEERING
Catalin Zaharia, Paul Octavian Stanescu, Izabela Cristina Stancu, Bianca Galateanu, Eugeniu Vasile

LIGNIN FIBERS FOR PRODUCTION OF GREEN NANOCOMPOSITES
Vida Poursorkhabi, Manjusri Misra, Amar K Mohanty

BLENDING OF POLY(LACTIC ACID) AND ACRYLONITRILE BUTADIENE STYRENE FOR USE AS BIO-COMPOSITE MATRIX
Ryan Vadori, Amar K Mohanty, Manjusri Misra

POLY(3HYDROXYBUTYRATE-CO-3HYDROXYVALERATE) / CLAY NANOCOMPOSITES FOR PACKAGING APPLICATIONS
Birgit Bittmann, Rebeca Bouza, Luis Barral

MECHANICAL PROPERTIES OF NATURAL FIBERS REINFORCED POLY(LACTIC ACID) BASED COMPOSITES
Putinun Uawongsuwan, Narongchai O-charoen, Hiroyuki Hamada

COMPATIBILIZATION OF POLYLACTIDE-BASED FLAX FIBER BIOCOMPOSITES
Andrea Arias, Marie-claude Heuzey, Michel A. Huneault, Cristina Kawano

CASTOR OIL BASED BIO-URETHANE NANOCOMPOSITES
Ji hoon Yu, Jae hong Go, Jin-san Yoon, In kyung kim, Kyurin Kim, Eun-ju Lee, Eun-soo Park

PLASTICIZATION OF CO-PRODUCTS FROM BIOETHANOL INDUSTRIES: POTENTIAL USES IN BIOCOMPOSITES
Rajendran Muthuraj, Manjusri Misra, Amar K Mohanty

USING FACTORIAL STATISTICAL METHOD FOR OPTIMIZING CO-INJECTED BIOCHAR COMPOSITES
Matthew J. Zaverl, Amar K Mohanty, Manjusri Misra

A FACTORIAL DESIGN OF DISTILLERS' GRAINS BASED BIOCOMPOSITES: A PATH TO SUSTAINABILITY OF CORN ETHANOL
Nima Zarrinbakhsh, Fantahun M Defersha, Amar K Mohanty, Manjusri Misra

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RECYCLING OF MARKET CFRP/CFRTP WASTE FOR MASS PRODUCTION APPLICATION

BIOCOMPOSITES

CYTIDINE FUNCTIONALIZATION PROMOTES SYNERGISTIC MECHANICAL PROPERTIES IN NACRE-MIMETIC NANOCOMPOSITES
Lahja Martikainen (Aalto University), Andreas Walther (Aachen University), Olli Ikkala (Aalto University)

APPLICATION OF BIOMECHANICAL PRINCIPLES FOR DESIGN OF COMPOSITE STRUCTURES
Andrey Malakhov (Institute of Machines Science), Alexander Polilov (Institute of Machines Science)

FAST AND SCALABLE SELF-ASSEMBLY APPROACHES TO BIOINSPIRED NANOCOMPOSITE FILMS AND COATINGS
Andreas Walther (Aachen University)

ENGINEERING AND MODELING OF TENSILE STRENGTH OF PAPER-THERMOSET COMPOSITES
Henri Kroeling, Sabrina Mehlhase, Samuel Schabel (Technische Universitat Darmstadt), Narmin Nubbo, Johanna Fleckenstein (Fraunhofer Institute for Structural Durability & System Reliability LBF), Angelika Endres, Frank Miletzky (PTS Fibre based solutions, Munich)

COLLOIDAL IONIC SELF-ASSEMBLY BETWEEN ANIONIC NATIVE CELLULOSE NANOFIBRILS AND CATIONIC BLOCK COPOLYMER MICELLES INTO BIOMIMETIC NANOCOMPOSITES
Miao Wang, Anna Olszewska, Janne Ruokolainen, Janne Laine, Monika Österberg, Olli Ikkala (Aalto U.), Andreas Walther (Aachen U.), Jani-markus Malho, Felix h. Schacher (Friedrich-Schiller U. Jena), Mikael Ankerfors, Lars A. Berglund (Royal Inst. of Tech.)

BIO-INSPIRED NACRE-LIKE COMPOSITES VIA SIMPLE, FAST, AND VERSATILE TECHNIQUES SUCH AS DOCTOR-BLADING
Seyed mohammad Mirkhalaf valashani (McGill University), Francois Barthelat (McGill University)

STRUCTURAL QUALITY BIOCOMPOSITES OF TREATED FLAX FIBER WITH EPOXIDIZED SUCROSE SOYATE RESIN
Christopher Taylor (North Dakota State University), Taylor Krosbakken (North Dakota State University), Chad A Ulven (North Dakota State University), Adlina paramarta (North Dakota State University), Dean Webster (North Dakota State University)

UTILIZATION OF FLAX FIBERS AND GLASS FIBERS IN A BIO-BASED RESIN
Nassibeh Hosseini (North Dakota State University), Chad A Ulven (North Dakota State University), Dean Webster (North Dakota State University)

THERMAL PROPERTIES AND STABILITY OF PET-HEMP FIBERS COMPOSITES
Aimé sylvain Fotso Talla (University of Quebec at Chicoutimi), Francois Godard (University of Quebec Abitibi-Temiscamingue), Fouad Erchiqui (University of Quebec at Chicoutimi)

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CURE AND THERMO-MECHANICAL CHARACTERISTICS OF BIO-BASED POLYESTER COMPOSITES USING HYDROPEROXIDE INITIATORS
Eldon Triggs (Tuskegee University), Michael Wells (), Mahesh Hosur (Tuskegee University), Alfred Tcherbi-narteh (Tuskegee University), Shaik Jeelani (Tuskegee University)

EFFECT OF FIBRE TREATMENTS ON WATER ABSORPTION AND TENSILE PROPERTIES OF FLAX/TANNIN COMPOSITES
James Njuguna (Cranfield University), Jinchun Zhu (Cranfield University)
BIO-INSPIRED COMPOSITES

DESIGN OF THE FIBER-WINDING LIGHTWEIGHT STRUCTURE INSPIRED BY BEETLE ELYTRA AND ITS MECHANICAL PROPERTIES
Ce Guo (Nanjing University of Aeronautics and Astronautics), Yi Zhou (Nanjing University of Aeronautics and Astronautics), Dong Li (Nanjing University of Aeronautics and Astronautics)

MULTIFUNCTIONAL COMPOSITE SANDWICH STRUCTURES UTILIZING EMBEDDED MICROVASCULAR NETWORKS
Christopher Hansen (University of Massachusetts at Lowell), Jordan Tye (University of Massachusetts at Lowell)

BIOINSPIRED HIERARCHICAL FUNCTIONAL MATERIALS TEMPLATED FROM NATURAL STRUCTURES
Di Zhang, Wang Zhang, Jiajun Gu, Shenmin Zhu, Huilan Su, Qinglei Liu, Tongxiang Fan, Chuangliang Feng (Shanghai Jiao Tong University)

PUMPING POTENTIAL OF A LEFT-VENTRICAL-LIKE FLEXIBLE-MATRIX-COMPOSITE STRUCTURE
Hany A Ghoneim (Rochester Institute of Technology)
BIOMEDICAL COMPOSITES

BIOMECHANICAL PROPERTIES OF RESORBABLE COMPOSITE BONE FRACTURE REPAIR PLATES
Ifty Ahmed (University of Nottingham)

IN VIVO TESTING OF A PHOSPHATE GLASS FIBRE / PLA COMPOSITE USING A RABBIT TIBIA MODEL
Andrew James Parsons (University of Nottingham)

A TEXTILE-BASED VIABLE COMPOSITE STENT FOR VASCULAR APPLICATION
Valentine Gesche (Aachen University)

LOCK-IN THERMOGRAPHIC INSPECTION OF A HOLE DEFECT IN DENTAL COMPOSITE RESTORATION
Ja-uk Gu (Hanyang University), Nak-sam Choi (Hanyang University)
BISTABLE LAMINATES

TIME AND TEMPERATURE DEPENDENCE ON THE SNAP-THROUGH BEHAVIOUR OF ADAPTIVE BISTABLE COMPOSITES
Christian Kirvel (Technische Universitat Dresden), Maik Gude (Technische Universitat Dresden), Werner A. Hufenbach (Technische Universitat Dresden)

A DESIGN STRATEGY FOR BI-STABLE UNSYMMETRIC COMPOSITE LAMINATES INDUCED BY VIBRATION
Atsuhiko Senba (Nagoya University), Tadashige Ikeda (Nagoya University)

MORPHING OF BISTABLE COMPOSITE LAMINATES
Samer Tawfik (Georgia Institute of Technology), Erian Armanios (University of Texas at Arlington), Stefan Dancila (University of Texas at Arlington)

AUTHORITY OPTIMISATION FOR RESONANT MORPHING CONTROL OF BI-STABLE WING-SHAPED COMPOSITES
Andres Felipe Arrieta diaz (Swiss Federal Institute of Technology, Zurich), Onur Bilgen (Old Dominion University), Michael I Friswell (Swansea University), Paolo Ermanni (Swiss Federal Institute of Technology, Zurich)
BONDED JOINTS

IMPROVEMENT IN THE ADHESIVE PROPERTY OF CHEMICALLY STABLE POLYMERIC MATERIALS AND FRP
Hitoshi Kanazawa (Fukushima University)

ADHESIVE BONDING CHARACTERISATION OF COMPOSITE JOINTS
King Jye Wong (Universite de Bourgogne), Xiaojing Gong (Universite de Bourgogne), Shahram Aivazzadeh (Universite de Bourgogne), Mohd N Tamin (Universiti Teknologi Malaysia)

INVESTIGATION ON THE FAILURE MECHANISMS OF COMPOSITE FASTENERS WITH COUNTERSUNK HEAD IN QUASISTATIC AND FATIGUE LOADING
Martin Schuett (Technische Universitat Hamburg-Harburg), Hans Wittich (Technische Universitat Hamburg-Harburg), Clemente Vernier (Bishop GmbH), Frank Nussbaumer (Bishop GmbH), Karl Schulte (Technische Universitat Hamburg-Harburg)

GLOBAL AND LOCAL INFLUENCE OF STACKING SEQUENCE ON THE STRENGTH OF ADHESIVELY BONDED JOINTS OF CFRP LAMINATES
Jerome Rousseau (Universite de Bourgogne), Purimpat Satthumnuwong (University of Phayao)

LASER THROUGH-TRANSMISSION WELDING OF WHITE-PIGMENTED GLASS-PEI TO CARBON-PEI
Dustin Louis Dequine (Fiberforge Corporation)

NUMERICAL AND EXPERIMENTAL INVESTIGATION OF COMPOSITE BOLTED JOINTS REPAIRED WITH INSERTS
Evangelos Ioannis Avgoulas (Imperial College of Science), Sergio Tejada (Imperial College of Science), Cesare Stocchi (Imperial College of Science), Paul Robinson (Imperial College of Science), Silvestre T Pinho (Imperial College of Science)

PROPOSAL OF A COHESIVE ZONE MODEL SUITABLE FOR THE STUDY OF BONDED JOINTS
Azalia Moradi (ONERA), Cedric Huchette (ONERA), Thomas Vandellos (ONERA), Dominique Leguilllon (Centre National de la recherche scientifique CNRS)

A COMPUTATIONAL TOOL FOR THE ANALYSIS AND DESIGN OF STRUCTURAL ADHESIVE JOINTS
Konstantinos N. Anyfantis (Technical University of Denmark)

INFLUENCE OF IMPACT AND STRAIN RATE ON THE RESPONSE OF ADHESIVELY BONDED SINGLE LAP JOINTS
Babak Soltannia (Dalhousie University), Babak Ahmadi moghadam (Dalhousie University), Farid Taheri (Dalhousie University)
ADHESIVE BOND TESTING BETWEEN COMPOSITE LAMINATES BY LASER SHOCKWAVE LOADING
Jean-pierre Monchalin (National Research Council Canada)

DESIGN AND VALIDATION OF THE PRIMARY STRUCTURE AND BONDED JOINTS FOR THE NEXT GENERATION LARGE CANADARM TESTBED
Peter P. Krimbalis (MDA Corporation), Drazen Djokic (National Research Council Canada), Gavin Scott Hay (MDA Corporation), Rick Cole (National Research Council Canada)
CARBON MATRIX & BRAIDED COMPOSITES

STRENGTH ANALYSIS OF 3D AXIAL BRAIDED COMPOSITES
Guodong Fang (Harbin Institute of Technology)

THROUGH-THICKNESS COMPRESSION BEHAVIOR OF A 2,5D CARBON/CARBON COMPOSITE
Marie Poitrimolt (Institut Clément Ader), Mohammed Cheikh (Universite de Toulouse-le-Mirail (Toulouse II)), Gérard Bernhart (Institut Clément Ader)

EFFECTS OF CURE PRESSURE ON VOID CONTENT AND ULTRASONIC ATTENUATION COEFFICIENT OF CARBON FIBRE REINFORCED COMPOSITE
Yalin Yu (Beihang University)

THERMAL ANALYSIS AND MICROSTRUCTURE OF FURFURAL ACETONE RESIN-DERIVED CARBON
Zhengwei Zhou (Shanghai University), Aijun Li (Shanghai University), Ruicheng Bai (Shanghai University), Jinliang Sun (Shanghai University), Musu Ren (Shanghai University), Hong Li (Shanghai University)
CARBON NANOCOMPOSITES

DEVELOPMENT OF SWCNT/AL2O3 COMPOSITES FOR BALLISTIC APPLICATIONS
Shuqiong Lin (NRC), Benoit Simard (NRC), Dave Morphy (NRC), Mariusz Bielawski (NRC), Peter Au (NRC), Jason Lo (CANMET, NRC), Manon Bolduc (Gov. of Canada), Jingwen Guan (NRC)

MANUFACTURING OF COMPOSITE LAMINATES WITH PERFORATED CARBON NANOTUBE FOREST CORE
Sei jin Park (University of Michigan - Ann Arbor), Sameh H. Tawfick (Massachusetts Institute of Technology), Anna Christine Brieland-shoulitz (University of Michigan - Ann Arbor), A. john Hart (University of Michigan - Ann Arbor)

ELECTRICAL RESPONSE OF GRAPHENE REINFORCED COMPOSITES UNDER STATIC AND DYNAMIC LOADING
Nicholas Heeder, Arijit Bose, Arun Shukla, Indrani Chakraborty (U. of Rhode Island), Fei Guo, Michael Godfrin, Robert Hurt, Anubhav Tripathi (Brown U.)

ELECTRICALLY CONDUCTIVE ADHESIVES FOR CFRP COMPOSITES BASED ON NICKEL NANOSTRANDS AND CARBON NANOTUBES
Iosif Daniel Rosca (Concordia University), Suong Hoa (Concordia University)

MECHANICAL PROPERTIES OF MULTI-WALLED CARBON NANOTUBE BUCKYPAPER BY POLYVINYLPYRROLIDONE ADHESIVES
Qianli Liu, Min Li, Jing Guo, Yizhuo Gu (Beihang University), Yanxia Li, Zuoguang Zhang (Beijing University of Aeronautics and Astronautics)

ENHANCED CARBON NANOTUBE FIBER AND FILM BY A HIGH TOUGHNESS EPOXY
Yanan Liu, Yizhuo Gu, Min Li (Beihang University), Kun Wang, Zuoguang Zhang (Beijing U. Aeronautics and Astronautics), Dongmei Hu, Qingwen Li (Chinese Academy of Sciences)

INTERFACIAL STRESS TRANSFER IN GRAPHENE OXIDE NANOCOMPOSITES
Zheling Li (University of Manchester), Robert Young (University of Manchester), Ian A. Kinloch (University of Manchester)

STUDY ON MECHANICAL PROPERTIES OF MODIFIED GRAPHENE/EPOXY NANOCOMPOSITES
Muchun Liu (Beihang University), Meihong Ge (Beijing Oriental Hanson Curtain Wall Technology Co. Ltd.), Song Yang (Beijing UFT Conference&Exhibition Co. Ltd)

FABRICATION AND MECHANICAL PROPERTIES OF CARBON NANOTUBE COMPOSITE MICROTRUSSES
Sei jin Park, Anna Christine Brieland-shoulitz, A. john Hart (University of Michigan - Ann Arbor), Matthew R. Maschmann, Jeffery W. Baur (Air Force Research Laboratory), Sameh H. Tawfick (Massachusetts Institute of Technology), Michael De volder
THE STUDY OF METHYL METHACRYLATE HARDENED HYBRID POPLAR WOOD
Weidan Ding (University of Quebec Abitibi-Temiscamingue), Ahmed Koubaa (University of Quebec Abitibi-Temiscamingue), Abdelkader Chaala

INTERLAMINAR SHEAR STRENGTH OF C-SIC BASED COMPOSITES REINFORCED WITH HEAT TREATED C FIBERS
Jixiang Dai (Dalian University of Technology), Zhiqiang Wei (Dalian University of Technology), Jian Li (Dalian University of Technology), Zhaofu Zhang (Dalian University of Technology), Jianjun Sha (Dalian University of Technology)

REAGGLOMERATION OF CARBON NANOTUBES DURING PROCESSING OF EPOXY NANOCOMPOSITES
Mostafa Yourdkhani (McGill University), Pascal Hubert (McGill University)

CONDUCTIVITY ENHANCEMENT FOR CARBON NANOTUNES WITH SILVER DECORATION
Warintorn Thitsartarn (Institute of Materials Research and Engineering)

EFFECT OF CARBON NANOTUBE DEFORMATION ON ELECTRICAL CONDUCTIVITY OF POLYMER COMPOSITES
Shen Gong (York University), George Zhenghong Zhu (York University), Emile Haddad (MPB Communications Inc)

HIGH OPTOELECTRONIC PERFORMANCE OF LAYER-BY-LAYER ASSEMBLED CARBON NANOTUBE THIN FILMS
Yong Tae Park (University of Minnesota - Twin Cities Campus), Jaime C Grunlan (Texas A&M University)

ELECTRICAL CONDUCTIVITY OF HYBRID/PATTERNED NANOCOMPOSITES FILMS
Rouhollah Dermanaki Farahani (Ecole Polytechnique de Montreal), Daniel Therriault (Ecole Polytechnique de Montreal)
CARBON, NANOTUBES & GRAPHENES

HIERARCHICAL COMPOSITES WITH PRESERVED CARBON FIBER STRENGTHS
Richard Li (Massachusetts Institute of Technology), Peter Florin (Massachusetts Institute of Technology), Stephen Alan Steiner (Massachusetts Institute of Technology), Brian Wardle (Massachusetts Institute of Technology)

MECHANICAL PROPERTY OF CARBON NANOTUBE YARN REINFORCED EPOXY
Yoshinobu Shimamura (Shizuoka University), Kahori Oshima (Shizuoka University), Keiichiro Tohgo (Shizuoka University), Tomoyuki Fujii (Shizuoka University), Yoku Inoue (Shizuoka University)

ROLL-TO-ROLL MANUFACTURING OF CARBON NANOTUBE FORESTS ON METAL FOILS
Erik Shaun Polsen (University of Michigan - Ann Arbor), A. john Hart (University of Michigan - Ann Arbor)

SCALABLE PRODUCTION OF EPOXY BASED NANOCOMPOSITES AND HIERARCHICAL COMPOSITES WITH VERY HIGH CNT LOADINGS
Tomi Herceg, Mohd shukur Zainol abidin, Emile Smith Greenhalgh, Alexander Bismarck, Milo Shaffer (Imperial College of Science), Clara Delfour (Institut Catholique d'Arts et Metiers Lille)
CERAMIC MATRIX COMPOSITES

DURABILITY OF CARBON/CERAMIC COMPOSITES SUBJECTED TO ELECTRICAL LOAD
Teresa Gumula (AGH University of Science and Technology), Felix L. Martinez (Universidad Politecnica de Cartagena)

DMA AS A METHOD OF MEASURING TOUGHNESS IN INORGANIC POLYMER MATRIX COMPOSITES
Donald W Radford (Colorado State University)

DAMAGE CHARACTERIZATION OF A 3D WOVEN SIC/SIC CMC MATERIALS UNDER LOADING
Edith Justine Grippon (Institut de Mecanique et d’Ingenierie de Bordeaux), Stéphane Baste (Universite Bordeaux I), Eric Martin (Universite Bordeaux I), Christophe Aristégui (Universite Bordeaux I), Guillaume Couégnat (Universite Bordeaux I)

ORDERING NANOSTRUCTURE AND PROPERTIES OF AL2O3/ZRO2 EUTECTIC CERAMIC COMPOSITE PREPARED BY COMBUSTION SYNTHESIS UNDER LOW PRESSURE
Yongting Zheng (Harbin Institute of Technology)

MECHANISM OF CRACK PROPAGATION/DEFLECTION AT FIBER MATRIX INTERFACE IN CERAMICS MATRIX CONTINUOUS FIBER REINFORCED COMPOSITES
Michael Braginsky (University of Dayton), Craig P Przybyla (AFRL/RXCC)

3YTZP-NANOALUMINA-NANODIAMOND COMPOSITES WITH GEMOLOGICAL PROPERTIES
Luis Antonio Díaz (CINN-CSIC)

A MESO-SCALE NUMERICAL APPROACH FOR DAMAGE AND FAILURE IN SHORT FIBRE REINFORCED CERAMICS
Alessandro Airoldi, Paolo Iavarone, Luca Di landro, Gabriele Imbalzano (Polytechnic Institute of Milan), Marco Orlandi (Brembo SGL Carbo Ceramic Brakes), Massimiliano Valle (Petroceramics spa)

STABILITY OF T-ZRO2 PARTICLES IN ALUMINA-ZIRCONIA COMPOSITES: PART. 1 COMPETITION BETWEEN SIZE AND STRAIN EFFECT
Camille Rabache (Ecole Centrale de Paris), Guillaume Bouchet (), Guillaume De calan (), Jean-michel Kiat (Ecole Centrale de Paris), Nicolas Guiblin (Ecole Centrale de Paris), Florence Porcher

SYNTHESIS OF CMC MATRIX BY NITRIDATION OF TISI2
Jerome Roger (Universite Bordeaux I), Laurence Maillé (Universite Bordeaux I), Marie-anne Dourges (Universite Bordeaux I)
INFLUENCE OF THE DIAMOND-CERAMIC COMPOSITE THERMAL CONDUCTIVITY ON CUTTING PROPERTIES
Lucyna Renata Jaworska, Piotr Klimczyk, Marcin Henryk Rozmus (Institute of Advanced Manufacturing Technology), Wojciech Zebała (Cracow University of Technology), Paweł Rutkowski (AGH University of Science and Technology)

FRACTURE TOUGHNESS BEHAVIOR OF ALUMINA MATRIX COMPOSITES AT ELEVATED TEMPERATURE.
Magdalena Szutkowska (Institute of Advanced Manufacturing Technology), Barbara Smuk (Institute of Advanced Manufacturing Technology), Marek Boniecki (Institute of Electronic Materials Technology)
CHARACTERIZATION

CORRELATIONS OF MECHANICAL AND IONIC CONDUCTION PROPERTIES WITH BICONTINUOUS MORPHOLOGIES OF STRUCTURAL ELECTROLYTES

PREDICTION OF ATTENUATED GUIDED WAVES PROPAGATION IN CARBON FIBER COMPOSITES
Matthieu Gresil (University of South Carolina), Victor Giurgiutiu (University of South Carolina - Columbia)

FOREIGN OBJECT INDUCED FIBER UNDULATION INFLUENCE ON MECHANICAL PROPERTIES OF COMPOSITE LAMINATE
Henrik Herranen (Tallinn University of Technology), Alar Kuusik (Tallinn University of Technology), Henri Lend (Tallinn University of Technology), Steffen Czichon (Elan-Ausy GmbH), Jaan Kers (Tallinn University of Technology), Marko Piirlaid (Tallinn University of Technology)

STRAIN-SOFTENING RESPONSE OF LAMINATED COMPOSITES UNDER COMPRESSION
Navid Zobeiry (University of British Columbia), Reza Vaziri (University of British Columbia), Anoush Poursartip (University of British Columbia)

INFLUENCE OF TEMPERATURE ON PHASE TRANSITIONS IN GLASS FIBER REINFORCED EPOXIES FOR ELECTRICAL SLOT INSULATION
Rudi Velthuis (ABB Schweiz AG - Corporate Research), Anastasia Peitz (ABB Schweiz AG - Corporate Research)

IMPROVEMENT OF IMPREGNATION AND MECHANICAL PROPERTIES OF CFRTP COMPOSITES BY MICRO-BRAIDED YARNS
Patcharat Wongsriraksa (Kanazawa Institute of Technology), Asami Nakai (Gifu University), Kiyoshi Uzawa (Kanazawa Institute of Technology), Isao Kimpara (Kanazawa Institute of Technology)

STUDY ON DYNAMIC RESPONSE OF FRP FLOAT FOR LIGHT SEAPLANE
Kazuki Wakizaka (Nihon University), Yoshio Aoki (Nihon University), Akihisa Tabata (Nihon University), Goich Ben (Nihon University)

STUDY AND SIMULATION OF THERMAL CONDUCTIVITY OF ORGANIC MATRIX COMPOSITES
Bénédicte Reine (Institut Clément Ader), Jeremy Di tomaso (), Gilles Dusserre (Institut Clément Ader), Philippe A Olivier (Institut Clément Ader)

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THERMAL CONDUCTIVITY MEASUREMENT OF GFRP AT CRYOGENIC TEMPERATURE
Kazuki Hayakawa (Tokyo Institute of Technology), Takayoshi Inoue (Tokyo Institute of Technology), Yuji Suzuki (Tokyo Institute of Technology)

IMPROVED THERMAL PROPERTIES WITH HYBRIDIZATION OF THE FILLERS FOR THERMOPLASTIC MATERIALS
Jozsef Gabor Kovacs (Budapest University of Technology and Economics), Andras Suplicz (Budapest University of Technology and Economics)

EFFECTIVE PROPERTIES FOR FIBER COMPOSITES WITH RHOMBIC PATTERN AND IMPERFECT INTERFACE
Harald Berger (Otto-von-Guericke Universitat Magdeburg)

CONDUCTIVITY AND DIELECTRIC RESPONSE OF CARBON-BASED COMPOSITES IN A BROAD FREQUENCY RANGE
Dmitry Nuzhnyy (Academy of Sciences)

CORRELATION OF TRANSDUCER FREQUENCY AND SIGNAL/NOISE RATIO OF THIN WALLED FILAMENT WOUND CFRP-TUBES INSPECTED BY ULTRASONICS
Jens Schuster (Fachhochschule Kaiserslautern)

3D DIC MEASUREMENT OF TUBULAR BRAIDED COMPOSITES
Garrett W Melenka (University of Alberta), David S Nobes (University of Alberta), Jason P Carey (University of Alberta)

THERMAL STRESSES IN FIBER REINFORCED COMPOSITES
George Zhenghong Zhu (York University), Shen Gong (York University)
CMC AND MMC - POSTER

EFFECTS OF SHORT CARBON FIBERS APPLICATION
Anita Olszowka-myalska, Jerzy Myalski

GLASSY CARBON PARTICLES AS A COMPONENT
Anita Olszowka-myalska, Jerzy Myalski

FABRICATION OF ALUMINIUM COMPOSITES REINFORCED WITH POWDERS AND CERAMIC PREFORMS BY A CENTRIFUGAL PROCESS
Anna Janina Dolata, Maciej Dyzia

MOULD CASTING OF ALUMINIUM MATRIX HETEROPHASE COMPOSITES
Maciej Dyzia, Anna Janina Dolata

ELECTRICAL CONDUCTIVITY AND SPATIAL DISTRIBUTION OF PARTICLE DISPERSED COMPOSITES
Kenjiro Sugio, Narihiro Kawano, Kota Ishikawa, Moonhee Lee, Gen Sasaki

LASER SURFACE TREATMENT OF Al-SiP COMPOSITES
Lustolde Martínez Laorden, Pilar Rodrigo, Belén Torres, Joaquin Rams

LIFETIME PREDICTION OF SELF-HEALING CERAMIC MATRIX COMPOSITE STRUCTURES
Myriam Kaminski, Elen Hemon, Jean-françois Maire, Florent Bouillon, Christian Fagiano

TRIBOLOGICAL BEHAVIOR OF A319-AL2O3 OR C PARTICULATE COMPOSITES FABRICATED BY STIR AND SQUEEZE CASTING METHODS
Essam Ahmed Shalaby

SIZE EFFECTS OF SiC PARTICLES ON MECHANICAL PROPERTIES OF CAST CARBON NANOFIBERS REINFORCED AZ91 MAGNESIUM COMPOSITES
Sang kwan Lee
COMPOSITES FOR BIOMEDICAL APPLICATIONS

PREPARATION AND CHARACTERIZATION OF MWCNTS/PVA COMPOSITE HYDROGELS WITH HIGH MECHANICAL AND ELECTROCHEMICAL PROPERTY FOR BIOMEDICAL APPLICATION
Yudong Zheng, Kun Qiao, Wei Li, Lingling Ren, Yanyi Huang (Beijing University of Science and Technology)

MICRO-PULLWINDING - AN AUTOMATED PRODUCTION TECHNOLOGY FOR MEDICAL DEVICES
Christian Brecher, Michael Emonts, Alexander Brack, Markus Eckert (Fraunhofer Institute for Production Technology)

NEW COMPOSITES BASED ON BACTERIAL CELLULOSE AND PHAS FOR TISSUE ENGINEERING APPLICATIONS
Paul Octavian Stanescu, Catalin Zaharia, Veronica Fratila, Eugeniu Vasile (University Politehnica of Bucharest) Bianca Galateanu (University of Bucharest)

THERMO-MECHANICAL CHARACTERIZATION OF NANO-HYDROXYAPATITE AND CELLULOSE REINFORCED POLY(LACTIC ACID) COMPOSITES WITH PROSPECTIVE APPLICATIONS FOR BONE SUBSTITUTE MANUFACTURING
Arman Mahboubi soufiani, Masoud Salehi, Mikael Skrifvars (University College of Boras), Sung-woo Cho (Royal Institute of Technology)
COMPOSITE IN CIVIL INFRASTRUCTURES

COMPARISON BETWEEN TRC AND CFRP AS EXTERNAL REINFORCEMENT FOR PLAIN CONCRETE BEAMS
Svetlana Verbruggen (Vrije Universiteit Brussel), Jan Wastiels (Vrije Universiteit Brussel), Tine Tysmans (Vrije Universiteit Brussel), Silke Puystiens (Vrije Universiteit Brussel)

FINITE ELEMENT ANALYSIS ON GLASS FIBRE REINFORCED COMPOSITES WITH INORGANIC PHOSPHATE CEMENT MATRIX: COMPARISON OF INBUIT ABAQUS CONCRETE MODELS
Maciej Mikolaj Wozniak (Vrije Universiteit Brussel), Tine Tysmans (Vrije Universiteit Brussel), Johnny Vantomme (Vrije Universiteit Brussel)

EFFECTS OF COMBINED ENVIRONMENTAL AGENTS ON PULTRUDED GFRP COMPOSITES FOR BUILDING CONSTRUCTIONS
Valter Carvelli (Polytechnic Institute of Milan), Guglielmo Carra (Polytechnic Institute of Milan)

EFFECT OF TRM ON THE FLEXURAL PERFORMANCE OF RC BEAMS
Sassan Rakhshani (University of British Columbia), Ahmad Rteil (University of British Columbia), Mojtaba Komeili (University of British Columbia), Abbas Milani (University of British Columbia)

COMPRESSIVE BEHAVIOUR OF CONCRETE CYLINDER CONFINED BY NATURAL FIBER REINFORCED POLYMER SHEET
Guijun Xian (Harbin Institute of Technology)

HYGROTHERMAL AGEING AND CREEP BEHAVIOR OF GLASS FIBER REINFORCED POLYMER COMPOSITES
Guijun Xian (Harbin Institute of Technology), Yang Yuqiu (Donghua University, Shanghai), Hiroyuki Hamada (Kyoto Institute of Technology), Eisuke Fukui (Fukui Fibertech Co. Ltd.)

PRESTRESS LOSS MONITORING OF NEAR-SURFACE MOUNTED CFRP STRIPS EMBEDDED IN CONCRETE BASED ON OFBG SENSORS
Chuan Wang (Harbin Institute of Technology), Lijuan Cheng (University of California, Davis)

DESIGN AND STRUCTURAL FEASIBILITY STUDY OF A LIGHTWEIGHT FLOOR SYSTEM FOR RENOVATION
Sven Desutter (Vrije Universiteit Brussel), Tine Tysmans (Vrije Universiteit Brussel), Olivier Remy (Vrije Universiteit Brussel)

DURABILITY OF STEEL-CFRP ADHESIVE JOINTS UNDER SUSTAINED LOADING AND WET THERMAL-CYCLE
Ankit Agarwal (University of New South Wales), Tian Sing Ng (University of New South Wales), Ehab Hamed (University of New South Wales), Stephen J Foster (University of New South Wales)
STRUCTURAL DESIGN AND VALIDATION OF A 10 KW WIND TURBINE BLADE
Louis-charles Forcier (École de technologie supérieure - Université du Québec), Jonathon Sumner (Dawson College), Tommy Gagnon (École de technologie supérieure - Université du Québec), Jean-François Charron, Simon Joncas (École de technologie supérieure - Université du Québec)

CARBON FIBRE REINFORCED PVDF PIPE
Siti rosminah Shamsuddin (Imperial College of Science), John Hodgkinson (Imperial College of Science), Leif Erik Asp (Swerea SICOMP), Runar Langstrom (Swerea SICOMP), Alexander Bismarck (Imperial College of Science)

SIMULATIVE DESIGN OF OVERBRAIDED PRESSURE VESSEL FOR HYDROGEN STORAGE
Michael Lengersdorf (Rheinisch Westfalische Technische Hochschule Aachen), Thomas Gries (Rheinisch Westfalische Technische Hochschule Aachen), Jörg Bernhard Multhoff (ISATEC GmbH), Markus Linke (Fachhochschule Hamburg)

A NOVEL INJECTION PROCESS FOR LONG FIBER COMPOSITES USING ROTATION
Andreas Altmann (Technische Universität München), Swen Zaremba (Technische Universität München), Roland Hinterhoelzl (Technische Universität München), Klaus Drechsler (Technische Universität München)
COMPOSITE STRUCTURES

PROGRESSIVE FAILURE ANALYSIS OF COMPOSITE LAMINATES INCLUDING STRAIN RATE EFFECT

Jingfen Chen (University of New South Wales), Evgeny V Morozov (University of New South Wales), Krishnakumar Shankar (Australian Defence Force Academy)

MODELING OF MULTIPLE DELAMINATIONS IN SHELLS USING XFEM

Jim Brouzoulis (Chalmers University of Technology), Martin Fagerström (Chalmers University of Technology)

MECHANICAL PROPERTIES OF COMPOSITE SANDWICH STRUCTURES WITH CORE OR FACE SHEET MODIFICATIONS

Edith Roland Fotsing (Ecole Polytechnique de Montreal), Matthieu Sola (Ecole Polytechnique de Montreal), Edu Ruiz (Ecole Polytechnique), Annie Ross (Ecole Polytechnique de Montreal)

STRESS ANALYSIS OF A FILAMENT WOUND COMPOSITE FLYWHEEL DISK

Md. Sayem Uddin (University of New South Wales), Evgeny V Morozov (University of New South Wales), Krishnakumar Shankar (Australian Defence Force Academy)

EVALUATING LAYERED FIBER COMPOSITE STRUCTURES ACCOUNTING FOR THE ONSET OF DELAMINATION

Jaan Willem Simon (Rheinisch Westfalische Technische Hochschule Aachen), Bertram Stier (Rheinisch Westfalische Technische Hochschule Aachen), Stefanie Reese (Rheinisch Westfalische Technische Hochschule Aachen)

BENDING TEST OF THERMOPLASTIC COMPOSITE CONE

Farjad Shadmehri (Concordia University), Suong Hoa (Concordia University), Mehdi Hojjati (Concordia University)

FREE VIBRATION ANALYSIS OF LAMINATED COMPOSITE OPEN CYLINDRICAL SHELLS WITH ARBITRARY BOUNDARY CONDITIONS

Tiangui Ye (Harbin Engineering University), Guoyong Jin (Harbin Engineering University), Yuchua Chen (Harbin Engineering University), Hongda Liu (Harbin Engineering University)
DEFORMATION

FATIGUE LIFE ASSESSMENT OF INJECTION-MOLDED REINFORCED SHORT FIBRE THERMOPLASTICS: NOTCH EFFECTS
Carole Nadot-martin, Sylvie Castagnet, Yves Nadot (Institut Pprime CNRS ISAE-ENSMA), Andrea Bernasconi, Edoardo Conrado (Polytechnic Institute of Milan)

EXPERIMENTAL VERIFICATION OF SPRINGBACK PHENOMENON ANALYSIS BY FBG SENSORS AND IMAGE PROCESSING METHODS IN C/PPS COMPOSITE
Zdenek Padovec, Hynek Chlup, Milan Dvorak, Milan Ruzicka (Czech Technical University of Prague)

CHARACTERISATION OF INELASTIC PROCESSES IN CF TEXTILE REINFORCEMENTS
Magdalena Szpieg (Swerea SICOMP), Maciej Wysocki (Swerea SICOMP)

EXPERIMENTAL INVESTIGATION OF THE EXTENSION/TWIST COUPLING IN ROTATING COMPOSITE LAMINATES
Damien Reveillon (FEMTO-ST), Vincent Placet (FEMTO-ST), Stani Carbillet (FEMTO-ST), Emmanuel Foltete (FEMTO-ST), Patrick Sandoz (Universite de Franche-Comte)
DETECTION & DAMAGE

DIGITAL IMAGE CORRELATION APPLIED TO THERMAL EXPANSION OF COMPOSITES
Camille Flament (Ecole Centrale de Lyon), Michelle Salvia (Ecole Centrale de Lyon), Bruno Berthel (Ecole Centrale de Lyon), Gerard Crosland

IOSIPESCU TEST TO CHARACTERIZE MODE II DELAMINATION RESISTANCE OF FIBRE-REINFORCED POLYMERS
Ben Jar (University of Alberta), Scott Mckinney (University of Alberta)

IDENTIFICATION OF FAILURE MECHANISMS IN THERMOPLASTIC COMPOSITES BY ACOUSTIC EMISSION MEASUREMENTS
Markus Günter ronny Sause (University of Augsburg), Joachim Scharringhausen, Siegfried Horn (Universitat Augsburg)

MICROMECHANISTIC ANALYSIS OF TOUGHENED CARBON FIBRE COMPOSITE LAMINATE FAILURE BY COMPUTED TOMOGRAPHY
Gregor Borstnar, Daniel J Bull, Mark N Mavrogordato, Ian Sinclair, Simon M Spearing (University of Southampton)

INTERLAMINAR CRACK DETECTION IN GRAPHENE NANOPLATELET/ CFRP COMPOSITES USING ELECTRIC RESISTANCE CHANGE
Babak Ahmadi moghadam (Dalhousie University), Babak Soltannia (Dalhousie University), Farid Taheri (Dalhousie University)

QUANTITATIVE ASSESSMENT BARELY VISIBLE INDENTATION DAMAGE (BVID) ON CF/EP SANDWICH COMPOSITES USING GUIDED WAVE SIGNALS
Lin Ye (University of Sydney), Samir Mustapha, Xingjian Dong

QUASI-STATIC INDENTATION AND COMPRESSION AFTER IMPACT DAMAGE GROWTH MONITORING USING MICROFOCUS X-RAY COMPUTED TOMOGRAPHY
Daniel J Bull, Simon M Spearing, Ian Sinclair (University of Southampton)
DURABILITY AND AGING

ENVIRONMENTAL DURABILITY OF KENAF FIBRE REINFORCED UNSATURATED POLYESTER COMPOSITE

EXPERIMENTAL INVESTIGATION OF PHYSICAL AGING EFFECT ON THE MECHANICAL PROPERTIES OF A CARBON/POLYIMIDE BRAIDED COMPOSITE
Simon Dulong (Ecole Polytechnique de Montreal), Martin Lévesque (Ecole Polytechnique de Montreal), Chun Li (National Research Council Canada), Aurelian Vadean (Ecole Polytechnique de Montreal)

LONG-TERM EXPOSURE OF POLYCYANATE COMPOSITES TO HIGH TEMPERATURE ATMOSPHERE
Yoshiyuki Kobayashi (Tokyo Metropolitan University), Satoshi Kobayashi (Tokyo Metropolitan University)

ANISOTROPIC ACID PENETRATION IN TRIANGULAR BAR REINFORCED EPOXY COMPOSITE
Bryan Buning Pajarito (University of the Philippines Diliman), Masatoshi Kubouchi (Tokyo Institute of Technology)

PREPARATION AND CHARACTERISATION OF NANOPARTICLE-DOPED COMINGLED COMPOSITES FOR IMPROVED FIRE PERFORMANCE
Spyros Anastasios Tsampas (Swerea SICOMP), Patrik Sven Fernberg (Swerea SICOMP), Giovanni Camino (Polytechnic Institute of Turin), Marco Monti, Per Blomqvist

EFFECT OF HUMIDITY AND TEMPERATURE ON THE CURING AND AGING OF A ROOM TEMPERATURE EPOXY ADHESIVE
Émilie Charette, Edith roland Fotsing, Catherine Billotte, Edu Ruiz, Julian Gutiérrez (Ecole Polytechnique de Montreal), Daniel Grenier (Cent. de recherche indus. du Quebec CRIQ)

EXPERIMENTAL AND NUMERICAL STUDIES OF HYGROTHERMAL AGING OF BIO-COMPOSITE SHORT FIBER HEMP / POLYPROPYLENE
Karim Bensalem, Lotfi Toubaal, Jean-christophe Cuilliere, Vincent Francois (University of Quebec at Trois-Rivieres), Papa birame Gning (Universite de Bourgogne)
EFFECT OF RESIDUAL STRESSES FROM MANUFACTURING ON PROPERTIES

DETERMINISTIC DESIGN AND MANUFACTURING OF CARBON NANOTUBE STAPLE YARNS
Sameh H. Tawfick (Massachusetts Institute of Technology), Abhinav Rao (University of Michigan - Ann Arbor), A. John Hart (University of Michigan - Ann Arbor)

INFLUENCE OF TRIMMING PROCESS ON THE SURFACE QUALITY AND THE MECHANICAL BEHAVIOR OF CFRP STRUCTURES: STATIC AND FATIGUE TESTS
Haddad Madjid (Institut Clément Ader), Habiba Bougherara (Ryerson University), Redouane Zitoune (Institut Clément Ader), Florent Eyma (Institut Clément Ader), Bruno Castanié (Institut Clément Ader)

MICROMECHANICAL INVESTIGATION OF RESIDUAL STRESSES AND STRENGTH OF CROSS-Ply LAMINATES
Fatih Ertugrul Oz (Bogazici University), Nuri Bulent Ersoy (Bogazici University)

TENSILE, COMPRESSIVE AND SHEAR RESIDUAL STRENGTHS OF COMPOSITE STRUCTURES SUBJECTED TO BALLISTIC IMPACT WITH DIFFERENT VELOCITIES
John J Wang (Australian Government Defence Science and Technology Organisation)

SOLVOTHERMAL METHOD FOR RECYCLING HYBRID COMPOSITE MATERIALS
Armando Tibigin Quitain (Kumamoto University), Katsuji Shibata (Hitachi Chemical Co. Ltd.), Mitsuru Sasaki (Kumamoto University), Motonobu Goto (Nagoya University)
ENERGY DEVICES

COATED CARBON FIBRE BATTERY HALF-CELLS FOR STRUCTURAL BATTERY COMPOSITES
Leif Erik Asp, Tony Carlson (Swerea SICOMP), Goeran Lindbergh, Simon Leijonmarck, Maria Hellqvist Kjell (Royal Institute of Technology), Alexander Bismarck, Henry Maples (Imperial College of Science)

DURABILITY AND DEGRADATION OF POLYMER MATRIX COMPOSITES AT ELEVATED TEMPERATURE AND PRESSURE FOR WAVE AND TIDAL ENERGY DEVICES
Zhongyi Yi Zhang (University of Portsmouth)

PERFORMANCE OF LITHIUM-INTERCALATED CARBON FIBRES FOR STRUCTURAL ELECTRODE APPLICATIONS
Eric Jacques, Dan Zenkert, Maria Hellqvist Kjell, Göran Lindberg, Mårten Behm (Royal Institute of Technology)

MICRO-CRACK DEVELOPMENT IN CARBON FIBER BATTERY IN CYCLIC CHARGE/DISCHARGE
Andrejs Pupurs (Lulea University of Technology), Janis Varna (Lulea University of Technology)

ADDRESSING ENGINEERING ISSUES FOR A COMPOSITE STRUCTURAL POWER DEMONSTRATOR
Mayur Kishorhrai Mistry (Imperial College of Science), Anthony Kucernak (Imperial College of Science), Sang Nguyen (Imperial College of Science), Jesper Ankersen (Imperial College of Science), Emile Smith Greenhalgh (Imperial College of Science)

MATCHING MATRIX AND FILLER DIELECTRIC CONSTANTS TO INCREASE DIELECTRIC BREAKDOWN STRENGTH
José Eliseo De León (Iowa State University of Science and Technology), Daniel J O'brien (US Army Research Laboratory), Michael Richard Kessler (Iowa State University of Science and Technology)

MANUFACTURING OF A MULTIFUNCTIONAL COMPOSITE PART FOR USE IN AUTOMOTIVE APPLICATIONS
Tony Carlson (Swerea SICOMP), Leif Erik Asp (Swerea SICOMP), Viktor Ekermo, Per-ivar Sellergren

MECHANICAL AND MICROSTRUCTURAL CHARACTERISATION OF MULTIFUNCTIONAL STRUCTURAL POWER COMPOSITES

MULTIFUNCTIONAL STRUCTURAL POWER COMPOSITES BASED ON CARBON AEROGEL MODIFIED HIGH PERFORMANCE CARBON FIBRE FABRICS
Hui Qian, Anthony Kucernak, Emile Smith Greenhalgh, Alexander Bismarck, Milo S p Shaffer (Imperial College of Science)
EXPERIMENTAL TECHNIQUES

SPRING-IN CHARACTERISTICS OF THERMOPLASTIC COMPOSITES WITH GLASS FIBER FABRIC REINFORCEMENT
Jasmin Brühmann (Universität Siegen), Bernd Engel (Universität Siegen)

COMPARISON OF METHODS TO CHARACTERIZE DAMAGE ONSET IN SHORT GLASS FIBER FILLED POLYPROPYLENE
Anna Maria Hartl, Winoj Naveen Balasooriya, Martin Reiter, Reinhold W. Lang (Johannes Kepler University Linz), Markus Schossig (Hochschule Anhalt (FH), Hochschule für angewandte Wissenschaften), Michael Jerabek (Borealis Polyolefine GmbH)

ANALYSIS OF FLEXIBLE CLAMPING IN TENSILE TESTS OF MULTIDIRECTIONAL LAMINATES
Faustino Mujika (Universidad del Pais Vasco), Neftali Carbajal (Universidad del Pais Vasco), Gustavo Vargas Silva (Universidad del Pais Vasco)

STRAIN RATE EFFECT ON SINGLE PPTA FIBER TENSILE BEHAVIOURS
Jae hyun Kim, Nathanael Alan Heckert, Stefan D. Leigh, Walter Mcdonough, Kirk Rice, Gale A Holmes (National Institute of Standards and Technology (NIST))

OPTIMIZED EXPERIMENTAL CHARACTERISATION OF PVC FOAM USING DIC TEST AND THE VIRTUAL FIELDS METHOD
Peng Wang (Aalborg University), Fabrice Pierron (University of Southampton), Ole Thybo Thomsen (University of Southampton), Marco Rossi (), Lava Pascal (Katholieke Universiteit Leuven)

AN EXPERIMENTAL AND FINITE ELEMENT STUDY OF THE LONGITUDINAL BENDING BEHAVIOR OF T-JOINTS IN VEHICLE STRUCTURES
Ermias Gebrekidan Koricho (Polytechnic Institute of Turin), Giovanni Belingardi (Polytechnic Institute of Turin)

MEASUREMENT OF THERMAL DEFOEMATION IN CFRP LAMINATE AT DIFFERENT SCALES
Yoshihisa Tanaka (National Institute for Materials Science)

WEAR BEHAVIOUR OF PARTICULATE REINFORCED ALUMINIUM COMPOSITES
Dimitrios Myriounis (Sheffield Hallam University), Syed T Hasan (Sheffield Hallam University)

SYNTHESIS, MICROSTRUCTURE AND MECHANICAL PROPERTIES OF NB-BASED COMPOSITES CONTAINING CARBIDE AND BORIDE CERAMIC PHASES
Xinjiang Zhang (Harbin Institute of Technology)
HOW VARIOUS UNCERTAINTIES AND ASSUMPTIONS AFFECT B-BASIS ALLOWABLES DEVELOPMENT
Carl Quinn Rousseau (Lockheed Martin)

EXPERIMENTAL AND NUMERICAL VALIDATION OF AN ANALYTICAL CALCULATION METHOD FOR NOTCHED FIBRE-REINFORCED MULTILAYERED COMPOSITES UNDER BENDING AND COMpressive LOADS
Bernd Grüber (Technische Universität Dresden), Werner A. Hufenbach (Technische Universität Dresden), Robert Gottwald (Technische Universität Dresden), Martin Lepper (Technische Universität Dresden), Binquan Zhou (Technische Universität Dresden)

RESIDUAL STRESS MEASUREMENTS OF GLASS/EPOXY COMPOSITE LAMINATE USING A NEW TYPE OF SPECIMEN DESIGN
Johnny Jakobsen (Aalborg University), Jens H. Andreasen (Aalborg University), Ole T. Thomsen (Aalborg University)

UNCERTAINTY ANALYSIS FOR OPTICAL PERMEABILITY MEASUREMENT OF REINFORCING TEXTILES
Ewald Fauser (Montanuniversität Leoben), Harald Grössing (Montanuniversität Leoben), Ralf Schledzewski (Montanuniversität Leoben)

NANOINDENTATION OF A CARBON-FIBRE COMPOSITE MICROSTRUCTURE: INTERPHASE CHARACTERISATION AND THE EFFECT OF RESIDUAL THERMAL STRESS
Mark Hardiman (University of Limerick), Conor T. McCarthy (University of Limerick)

HYBRID TESTING OF COMPOSITE STRUCTURES WITH SINGLE-AXIS CONTROL
Jacob Paamand Waldboern, Jacob Høgh, Henrik Stang, Christian Berggreen, Jacob Wittrup-schmidt, Kim Branner (Technical University of Denmark)

MULTI AXIS MACHINING OF HIGH PERFORMANCE CFRP FOR AEROSPACE INDUSTRY
Seyedbehzad Ghafarizadeh (École de technologie supérieure - Université du Québec), Jean-françois Chatelain (École de technologie supérieure - Université du Québec), Gilbert Lebrun (University of Quebec at Trois-Rivieres)

USING THE LAP-SHEAR TEST TO MEASURE POLYMER COMPOSITE INTERFACIAL STRENGTH
Jeff Wood (University of Western Ontario), Ian N Swentek (University of Western Ontario)

EFFECT OF SUPERHEATED STEAM TREATMENT ON TENSILE STRENGTH OF CARBON FIBER AND FIBER-RESIN INTERFACIAL SHEAR STRENGTH
Masashi Wada, Kazuhiko Kawai, Kazumi Hayashi, Satoshi Kitaoka (Japan Fine Ceramics Center), Yuta Shimizu (Daido University), Tomoyuki Suzuki (Aichi Science and Technology Foundation), Hirohito Hira (Daido University)
FATIGUE OF COMPOSITES

STATIC AND FATIGUE PROPERTY OF MODE I CRACK ON CFRP LAMINATE TOUGHENED WITH CNF INTERLAYER
Masahiro Arai (Shinshu University), Marino Quaresimin (University of Padua), Masaki Hojo (Kyoto University)

VERY HIGH CYCLE FATIGUE OF FIBRE-REINFORCED COMPOSITES: AN ALTERNATIVE EXPERIMENTAL APPROACH
Till Julian Adam (Technische Universitat Carolo-Wilhelmina Braunschweig), Peter Horst (Technische Universitat Carolo-Wilhelmina Braunschweig)

ENHANCED FATIGUE TESTING OF COMPOSITES
Peter Bradby spiros Bailey (Instron), Christian Hoehl (Instron), Payam Jamshidi (University of Manchester), Steve Squires (Instron), Andrew J Smith (Instron)

INFLUENCE OF GLASS TRANSITION TEMPERATURE OF THERMOPLASTIC AND THERMOSET LAMINATES ON THEIR FATIGUE BEHAVIOR
William Albouy (INSA Rouen), Benoit Vieille (INSA Rouen), Lakhdar Taleb (INSA Rouen)

SYNCHROTRON COMPUTED TOMOGRAPHY OF FATIGUE MICROMECHANISMS IN CFRP
Serafina Consuelo Garcea (University of Southampton), Mark N Mavrogordato (University of Southampton), Anna E Scott (University of Southampton), Ian Sinclair (University of Southampton), Simon M Spearing (University of Southampton)

FATIGUE AND STATIC DAMAGE MODELLING OF CONTINUOUS GLASS FIBRE/EPOXY COMPOSITE
Rim Ben toumi (PSA Peugeot Citroen), Jacques Renard (), Pongsak Nimdum (Ecole Nationale Superieure des Mines de Paris), Martine Monin ()

INFLUENCE OF PLY WAVINESS ON RESIDUAL STRENGTH AND FATIGUE DEGRADATION OF COMPOSITE WIND TURBINE BLADES
Milos Draskovic (Universitat Stuttgart), Udayanga Indunil kumar Galappaththi (Glasgow Caledonian University), Anthony Pickett (Universitat Stuttgart), Marc Capellaro (Universitat Stuttgart), Peter Middendorf (Universitat Stuttgart)

THE EFFECT OF TEMPERATURE ON THE MIXED-MODE INTERLAMINAR TOUGHNESS AND FATIGUE DELAMINATION GROWTH OF FIBRE REINFORCED PLASTICS
Georgia Charalambous (University of Bristol), Giuliano Allegri (University of Bristol)

DAMAGE PHENOMENA OF FIBRE REINFORCED COMPOSITES UNDER VHCF-LOADING
Ilja Koch, Maik Gude, Werner A. Hufenbach, Roman Koschichow (Technische Universitat Dresden), Karl Schulte, Julia Knoll (Technische Universitat Hamburg-Harburg)
A NEW INTEGRATED ANISOMORPHIC CFL DIAGRAM APPROACH TO OFF-AXIS FATIGUE LIFE PREDICTION OF CFRP LAMINATES AT ANY TEMPERATURES IN ANY FIBER-ORIENTATIONS
Masamichi Kawai (Tsukuba University)

MECHANICAL COUPLING BETWEEN METAL LINER AND COMPOSITE STRUCTURE IN TYPE III TANKS DURING HIGH PRESSURE FATIGUE LOADING.
Dominique M Perreux (Universite de Franche-Comte)

AN INVESTIGATION INTO THE DAMAGE DEVELOPMENT AND RESIDUAL STRENGTHS OF OPEN-HOLE SPECIMENS IN FATIGUE
Oliver James Nixon-pearson (University of Bristol), Stephen Richard Hallett (University of Bristol)

DURABILITY OF CARBON FIBER REINFORCED COMPOSITE LAMINATES FOR LARGE PRECISE SPACE STRUCTURE UNDER CYCLIC THERMAL LOADING
Satoshi Kobayashi (Tokyo Metropolitan University), Masahiro Tomite (Tokyo Metropolitan University), Minoru Iwata (Kyushu Institute of Technology), Num Huu Tran (Japan Aerospace Exploration Agency), Ken Goto (Japan Aerospace Exploration Agency)

COMPRESSION AFTER IMPACT AND FRACTURE TOUGHNESS OF CARBON FIBER/EPOXY COMPOSITES MODIFIED WITH CARBON NANOTUBES
Marcel Siegfried (Katholieke Universiteit Leuven), Carmen Tola (), Stepan V. Lomov (Katholieke Universiteit Leuven), Ignaas Verpoest (Katholieke Universiteit Leuven), Larissa Gorbatikh (Katholieke Universiteit Leuven)

INTERLAMINAR FATIGUE CRACK GROWTH IN CARBON FIBER REINFORCED COMPOSITES
Steffen Stelzer (Montanuniversitat Leoben), Rhys Jones (Monash University), Andreas J. Brunner (Empa, Swiss Federal Laboratories for Materials Science & Technology)

PREDICTION OF FATIGUE DAMAGE EVOLUTION IN MULTIDIRECTIONAL LAMINATES
Marino Quaresimin (University of Padua), Paolo Andrea Carraro (University of Padua)

INFINITE LIFE OF CFRP EVALUATED NONDESTRUCTIVELY WITH X-RAY-REFRACTION TOPOGRAPHY
Volker Trappe (BAM Federal Institute for Materials Research and Testing), Hans Peter Ortwein (BAM-Federal Institute for Materials Research & Testing), Stefan Hickmann (BAM-Federal Institute for Materials Research & Testing)

DEVELOPMENT OF CYCLIC DAMAGE IN CARBON EPOXY COMPOSITES UNDER VARIABLE LOADING CONDITIONS
Alan Plumtree (University of Waterloo), Jan Dahl (University of Waterloo)
FATIGUE DAMAGE CHARACTERIZATION IN SHORT GLASS FIBER REINFORCED POLYAMIDE-66
Muhamad fatikul Arif, Yves Chemisky, Fodil Meraghni (Arts et Metiers Paris Tech), Nicolas Saintier, Joseph Fitoussi (Ecole Nationale Superieure d’Arts et Metiers de Paris), Gilles Robert (Solvay Engineering Plastics)

INFLUENCE OF NOTCH GEOMETRY ON BENDING FATIGUE BEHAVIOR OF TWILL E-GLASS/EPOXY COMPOSITE
Giovanni Belingardi (Polytechnic Institute of Turin), Alem Tekalign Beyene (Polytechnic Institute of Turin), Ermias Gebrekidan Koricho (Polytechnic Institute of Turin)

PREDICTING FATIGUE DAMAGE DEVELOPMENT FOR BRAIDED CARBON FIBER POLYMER MATRIX COMPOSITES
John Montesano (Ryerson University), Zouheir Fawaz (Ryerson University), Martin Lévesque (Ecole Polytechnique de Montreal), Cheung J Poon (Ryerson University)

EXPERIMENTAL ASPECTS AND MULTISCALE NUMERICAL DESCRIPTION OF THE FATIGUE BEHAVIOR OF FIBER REINFORCED POLYMERS
Daniel Krause (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR)), Gordon Just (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR)), Janko Kreikemeier (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

FATIGUE BEHAVIOURS OF ±45° GLASSFIBRE DOMINATED COMPOSITES IN WIND TURBINE BLADES
Kuangyi Zhang (University of Manchester)

EFFECT OF FLEXIBLE INTERPHASE ON DYNAMIC CHARACTERISTICS OF CFRP
Tatsuya Fukuda (Gifu University), Akio Ohtani (Gifu University), Asami Nakai (Gifu University)

CUMULATIVE FATIGUE DAMAGE PREDICTION OF COMPOSITE STRUCTURES
Chris Cater (Michigan State University), Xinran Xiao (Michigan State University)

UNDERWATER ACCELERATED AGING OF ELASTOMERIC COMPOSITE MATERIALS
Audrey Favre (Ecole Polytechnique de Montreal), Edith roland Fotsing (Ecole Polytechnique de Montreal), Edu Ruiz (Ecole Polytechnique), Martin Lévesque (Ecole Polytechnique de Montreal), Clémentine Fellah (Ecole Polytechnique de Montreal)
FORMING OF ADVANCED COMPOSITES & ENGINEERING FABRICS

INFLUENCE OF INTERPLY FRICTION ON THE FORMING OF STACKED UD PREPREG
Malin Akermo (Royal Institute of Technology), Ylva R Larberg (Royal Institute of Technology), Jens Sjolander (Royal Institute of Technology), Per Johan Hallander (Saab AB)

HYPERELASTIC & HYPOELASTIC MODELS FOR THE MESOSCOPIC ANALYSES OF COMPOSITE REINFORCEMENT DEFORMATION DURING FORMING
Philippe Boisse, Emmanuelle Vidal-sallé, Than Nguyen, Adrien Charmetant (Institut National des Sciences Appliquees de Lyon)

VALIDATION OF LOCAL STITCHING SIMULATION FOR STITCHED NCF PLY STACKS
Sylvain Bel, Daniel Leutz, Roland Hinterhoelzl, Klaus Drechsler (Technische Universitat Munchen), Alexane Margossian, Uwe Beier (Eurocopter Deutschland GmbH)

EFFECT OF INTER-PLY SLIDING ON THE APPEARANCE OF DEFECTS FOR MULTILAYERED COMPOSITE SHAPING
Samir Allaoui (Universite d'Orleans), Gilles Hivet (Universite d'Orleans), Christophe Cellard (Universite d'Orleans)

FORMING PARTS WITH AlIGNED MULTI WALL CARBON NANOTUBES
Per Johan Hallander (Saab AB)

EVALUATION OF DAMAGE DEVELOPMENT OF NON-CRIMP FABRIC COMPOSITES WITH A CIRCULAR HOLE BASED ON MULTI-SCALE ANALYSIS
Tetsusei Kurashiki (Osaka University), Yoshitaka Matsushima (Osaka University), Yuki Nakayasu (Osaka University), Masaru Zako (Osaka University)

A SIMULATION APPROACH FOR TEXTILE COMPOSITE REINFORCEMENTS
Thomas Gereke, Oliver Doebrich, Matthias Huebner, Chokri Cherif (Technische Universitat Dresden)

MULTI-SCALE MODELLING OF FIBRE BUNDLES
Nilanjan Das chakladar (University of Manchester), Partha Mandal (University of Manchester), Prasad Potluri (University of Manchester)

SHAPING ANALYSIS OF A NON-CRIMP 3D ORTHOGONAL WEAVE E-GLASS COMPOSITE REINFORCEMENT
Juan Francisco Pazmino (Polytechnic Institute of Milan), Valter Carvelli (Polytechnic Institute of Milan), Stepan V. Lomov (Katholieke Universiteit Leuven)

TRANSITIONAL BEHAVIOUR OF PREPREGS IN AUTOMATIC FIBRE DEPOSITION PROCESSES
Dmitry Ivanov (University of Bristol), Carwyn Ward (University of Bristol), Kevin Potter (University of Bristol)

CHARACTERIZATION OF CURED NCF COMPOSITES USED IN THE FORMING OF WIND TURBINE BLADES
Cynthia Mitchell, James A. Sherwood, Konstantine A Fetfatsidis, Lisa Dangora, Jennifer L. Gorczyca (University of Massachusetts at Lowell)

TEMPERATURE AND RATE DEPENDENT MULTI-SCALE SHEAR MODELLING OF MOLTEN THERMOPLASTIC ADVANCED COMPOSITES
Philip Harrison (University of Glasgow), Nuno Curado-correia (INEGI - Institute of Mechanical Engineering and Industrial Management)

EFFECT OF TEXTILE ARCHITECTURE ON ENERGY ABSORPTION OF WOVEN FABRICS SUBJECT TO BALLISTIC IMPACT
Cheng-chou Eric Yang (University of Melbourne), Phuong Tran (University of Melbourne), Tuan Ngo (University of Melbourne), Priyan Mendis (University of Melbourne), Bill Humphries (CSIRO)

RESPONSE SURFACES OF MECHANICAL BEHAVIOR OF DRY WOVEN FABRICS UNDER COMBINED LOADINGS
Mojtaba Komeili (University of British Columbia), Abbas Milani (University of British Columbia)

USING LS-DYNA TO SIMULATE THE FORMING OF WOVEN-FABRIC REINFORCED COMPOSITES
Corey Morris (Advanced Composite Materials and Textile Research Laboratory), Lisa Dangora (University of Massachusetts at Lowell), James A. Sherwood (University of Massachusetts at Lowell)

RUBBER PAD FORMING OF GLARE CRUCIFORM USING NUMERICAL AND EXPERIMENTAL ANALYSIS
Ravishankar Subbaramaiah, B. gangadhar Prusty, Garth Morgan Kendall Pearce, Shen hin Lim, Donald Wainwright Kelly, Rodney Thomson (University of New South Wales)

FORMING OF NONCRIMP FABRIC COMPOSITES WITH EMBEDDED CABLING
Alexander Stefanov Petrov, Jennifer L. Gorczyca, James A. Sherwood, Lisa Dangora, Cynthia Mitchell (University of Massachusetts at Lowell)

CONSOLIDATION OF BRAID-BASED CFRP STRUCTURES
Martina Bulat (Universitat Stuttgart), Larissa Von wascinski (Universitat Stuttgart), Peter Middendorf (Universitat Stuttgart), Hartmut Roedel (Technische Universitat Dresden)

SIMULTANEOUS BINDING AND TOUGHENING CONCEPT FOR TEXTILE REINFORCED IN SITU POLYMERIZED CYCLIC BUTYLENE TEREPHALATE COMPOSITES
Wangqing Wu (Technische Universitat Clausthal)
FRACTURE AND DAMAGE

INTERACTION BETWEEN METALLIC MICRO-FASTENERS AND CARBON-FIBRE COMPOSITE LAMINATES
Philip N Parkes (University of Bath), Richard Butler (University of Bath)

ADVANCED CRASH ABSORBERS STITCHED BY NATURAL FIBRES TO IMPROVE EFFECTIVE CRACK GROWTH RESISTANCE
Hessam Ghasemnejad (Kingston University)

FATIGUE DELAMINATION: A COMPARISON BETWEEN VIRTUAL CRACK CLOSURE AND COHESIVE ZONE SIMULATION TECHNIQUES
Gregorio Giuliese, Alessandro Pirondi, Fabrizio Moroni (U. of Parma), Andrea Bernasconi, Azhar Jamil (Polytechnic Institute of Milan), Ali Nikbakh (U. of Bologna)

DAMAGE BEHAVIOUR IN QUASI-ISOTROPIC CFRP LAMINATES WITH SMALL FIBRE ORIENTATION MISMATCH
Hayato Nakatani (Osaka City University), Shinji Oghihara (Tokyo University of Science)

NOVEL COMPOSITE-COMPOSITE JOINING TECHNOLOGY WITH THROUGH THICKNESS REINFORCEMENT FOR ENHANCED DAMAGE TOLERANCE
Steffen Stelzer (Montanuniversitat Leoben), Stephan Ucsnik (Austrian Institute of Technology), Jürgen Tauchner (FACC AG), Thomas Unger (Montanuniversitat Leoben), Gerald Pinter (Montanuniversitat Leoben)

COUPLING OF PLANAR GROWTH AND MATRIX CRACKING IN MODE III DELAMINATION TOUGHNESS TESTING
Allison Lynne Johnston (Syracuse University), Barry D Davidson (Syracuse University)

ANALYTICAL AND FINITE ELEMENT ANALYSES ON RELIABILITY OF CARBON FIBRE REINFORCED PLASTICS
Heng-yi Chou, Sébastien Joannès, Anthony R. Bunsell, Alain Thionnet (Ecole Nationale Superieure des Mines de Paris)

EXPERIMENTAL CHARACTERISATION OF THE PROGRESSIVE FAILURE OF GRID-SCORED SANDWICH STRUCTURES IN WIND TURBINE BLADES
Steffen Laustsen (Aalborg University)

RECENT PROGRESS ON BENCHMARKING CRACKING AND DAMAGE MODELS FOR FIBRE REINFORCED POLYMER COMPOSITES
Sam Kaddour (QinetiQ Ltd), Paul A Smith (University of Surrey), Michael John Hinton (National Composites Centre), Shuguang Li (University of Nottingham)

CHALLENGING LESSONS FROM THE SECOND WORLD-WIDE FAILURE EXERCISE (WWFE-II)
Sam Kaddour (QinetiQ Ltd), Michael John Hinton (National Composites Centre)
NUMERICAL STUDY OF THE EFFECT OF NYLON 6,6 ELECTROSPUN NANOFIBROUS MATS TO THE DELAMINATION STRENGTH OF CFR-EPOXY COMPOSITE LAMINATES
Fabrizio Moroni, Alessandro Pironi, Gregorio Giuliese (University of Parma), Seeram Ramakrishna (National University of Singapore) Giangiacomo Minak, Roberto Palazzetti, Andrea Zucchelli (University of Bologna)

NEW DEVELOPMENTS IN ONSET THEORY FOR ONSET OF RESIN FAILURE IN FIBRE REINFORCED COMPOSITES
Shen hin Lim (University of New South Wales), Donald Wainwright Kelly (University of New South Wales), Garth Morgan Kendall Pearce (University of New South Wales), B. gangadhar Prusty (University of New South Wales), Alan Crosky (University of New South Wales)

A NOVEL STRENGTH MODEL FOR UNIDIRECTIONAL FIBRE-REINFORCED COMPOSITES WITH REALISTIC FIBRE PACKINGS
Ignaas Verpoest (Katholieke Universiteit Leuven), Yentl Swolfs (Katholieke Universiteit Leuven), Larissa Gorbatikh (Katholieke Universiteit Leuven)

CRUSHING OF COMPOSITE STRUCTURES AND PARAMETER IDENTIFICATION FOR MODEL DEVELOPMENT
Sindy Engel (Technische Universität Bergakademie Freiberg), Christian Boegle (BMW Group), Dirk Lukaszewicz (BMW Group)

EXPERIMENTAL AND NUMERICAL STUDY OF THE MICRO-MECHANICAL FAILURE IN COMPOSITES
Danial Ashouri vajari (Technical University of Denmark), Karolina Martyniuk (Technical University of Denmark), Bent F Sørensen (Technical University of Denmark), Brian Nyvang Legarth (Technical University of Denmark)

MIXED-MODE FRACTURE ANALYSIS OF DELAMINATION USING NON-LINEAR EXTENDED FINITE ELEMENT METHOD
Damoon Motamedi (University of British Columbia), Abbas Milani (University of British Columbia)

INVESTIGATION OF THE FAILURE BEHAVIOR OF SHORT-FIBER-REINFORCED THERMOPLASTICS WITH MOLDED IN HOLES
R. byron Pipes (Purdue University)

EFFECT OF EMBEDMENT LENGTH ON THE PERFORMANCE OF SHEAR-STRENGTHENED RC BEAMS WITH L-SHAPED CFRP PLATES
Amir Mofidi (McGill University), Sébastien Thivierge (Ecole de Technologie Superieure), Omar Chaallal (Ecole de Technologie Superieure), Yixin Shao (McGill University)

PROCESSING EFFECT ON THE DAMAGE TOLERANCE OF RANDOMLY-ORIENTED STRANDS THERMOPLASTIC COMPOSITES
Benoit Landry (McGill University), Pascal Hubert (McGill University)

**DUCTILE STEEL FIBER/EPOXY COMPOSITES WITH MODIFIED ADHESION**
Michaël Guy Callens, Larissa Gorbatikh, Ellen Bertels, Bart Goderis, Mario Smet, Ignaas Verpoest (Katholieke Universiteit Leuven)

**MIXED MODE THROUGH THICKNESS FRACTURE OF POLYMER MATRIX COMPOSITE**
Jamal Jamali (University of Western Ontario), Jeff Wood (University of Western Ontario)

**STACKING SEQUENCE EFFECTS IN OVER-HEIGHT COMPACT TENSION TESTS OF QUASI-ISOTROPIC LAMINATES**
Xiaodong Xu, Michael R Wisnom, Stephen Richard Hallett (University of Bristol), Navid Zobeiry, Steven A Leslie, Anoush Poursartip, Reza Vaziri (University of British Columbia)

**STRESS CONTOUR UTILIZATION FOR ESTIMATING INTERFACIAL PROPERTIES OF FIBER/MATRIX COMPOSITE**
Bentang Arief Budiman (Tokyo Institute of Technology), Kosuke Takahashi (Tokyo Institute of Technology), Kazuaki Inaba (Tokyo Institute of Technology), Kikuo Kishimoto (Tokyo Institute of Technology)

**THE WORLD WIDE FAILURE EXERCISE- STRENGTH PREDICTION IS NOT EASY - BUT WE ARE GETTING THERE**
Keynote: Michael John Hinton (National Composites Centre), Sam Kaddour (QinetiQ Ltd)

**MODELLING COMPRESSIVE DAMAGE IN CFRP: COMBINING FRICTION WITH DAMAGE**
Renaud Gutkin (Swerea SICOMP)

**STUDY OF NON-LINEAR TENSILE BEHAVIOUR OF DISCONTINUOUS CARBON-EPOXY PREPREG COMPOSITES**
Gergely Czel (University of Bristol), Michael R Wisnom (University of Bristol)

**EFFECT OF SUBSTRATE SURFACE MORPHOLOGY ON FATIGUE BEHAVIOUR OF ADHESIVELY BONDED CARBON FIBRE REINFORCED PEEK COMPOSITES**
Michelle Salvia (Ecole Centrale de Lyon), Réda el hak Ourahmoune (Ecole Centrale de Lyon), Nadir Mesrati (Ecole Nationale Polytechnique), Thomas Mathia (Ecole Centrale de Lyon)

**MIXED-MODE TRANSLAMINAR FRACTURE: EXPERIMENTAL RESULTS AND NUMERICAL MODELLING**
Matthew John Laffan (Imperial College of Science), Silvestre T Pinho (Imperial College of Science), Paul Robinson (Imperial College of Science)

**MULTI-SCALE ANALYSIS OF EFFECTS OF CONSTITUENT PROPERTIES ON OPEN-HOLE TENSION PERFORMANCE OF COMPOSITE LAMINATES**
Xing Li, Zhidong Guan, Bin Xue, Lu Liu, Wei He, Junwu Mu (Beijing University of Aeronautics and Astronautics)

NUMERICAL AND EXPERIMENTAL ANALYSES OF MULTIPLE DELAMINATIONS IN CURVED COMPOSITE LAMINATES
Andrea Baldi, Alessandro Airoldi, Paolo Belotti, Paolo Bettini, Giuseppe Sala (Polytechnic Institute of Milan)

EVALUATION OF THE APPLICABILITY OF THE FIRST PSEUDO-GRAIN FAILURE MODEL FOR SHORT GLASS FIBER REINFORCED POLYPROPYLENE MATERIALS
Martin Reiter, Anna Maria Hartl, Zoltan Major, Reinhold W. Lang (Johannes Kepler University Linz), Michael Jerabek, Simon Gastl (Borealis Polyolefine GmbH)

MIXED MODE COHESIVE LAW FOR FIBRE/MATRIX INTERFACE- A COUPLED EXPERIMENTAL AND NUMERICAL STUDY
Karolina Martyniuk (Technical University of Denmark), Bent F Sørensen (Technical University of Denmark), Qingda Yang (University of Miami), Wei Liu (University of Miami)

THE EFFECT OF CYCLIC SOLUTION TEMPERATURE ON FLEXURAL PROPERTY OF UNSATURATED POLYESTER RESIN UNDER LIQUID AND VAPOR PHASE
Pradchar Pradyawong (Tokyo Institute of Technology), Masatoshi Kubouchi (Tokyo Institute of Technology), Saiko Aoki (Tokyo Institute of Technology)

A MULTI-SCALE VISCOELASTIC COHESIVE LAYER MODEL FOR PREDICTING DELAMINATION IN HIGH TEMPERATURE POLYMER MATRIX COMPOSITES
Samit Roy (University of Alabama - Tuscaloosa)

MODELLING CRACK PROPAGATION IN PARTICLE- REINFORCED COMPOSITES USING THE ELEMENT-FREE GALERKIN METHOD
Nelson Madalai Muthu (Indian Institute of Technology, Bombay), Brian George Falzon (Queen's University Belfast), Surjya Kumar Maiti (Indian Institute of Technology, Bombay), Shahin Khoddam (Monash University)

RESIDUAL COMPRESSIVE STRENGTH ASSESSMENT OF IMPACTED LAMINATES BASED ON C-SCAN DATA
Yu Yang (University of Nottingham), Xiasheng Sun (China Aviation Industry Corp), Shuguang Li (University of Nottingham)

EVALUATION OF LOADING RATE DEPENDENCE ON FRACTURE BEHAVIOR OF CFRP LAMINATE WITH HIGH SPEED IMAGING
Hideaki Kusano (Shimadzu Corporation), Yoshiyasu Hirano (Japan Aerospace Exploration Agency), Akinori Yoshimura (Japan Aerospace Exploration Agency), Yuichiro Aoki (Japan Aerospace Exploration Agency), Yutaka Iwahori (Japan Aerospace Exploration Agency)
THERMOGRAPHIC EVALUATION OF CFRP SPECIMENS DRILLED WITH CONVENTIONAL AND ABRASIVE WATER JET TECHNIQUES
Muhammad Saleem (Ryerson University), Lotfi Toubal (University of Quebec at Trois Rivieres), Redouane Zitoune (Institut Clément Ader), Habiba Bougherara (Ryerson University)

BENDING STIFFNESS OF LAMINATES WITH INTRALAMINAR CRACKS IN SURFACE LAYERS AND INTERFACE DELAMINATIONS
Janis Varna (Lulea University of Technology), Andrejs Pupurs (Lulea University of Technology), Liva Pupure (Lulea University of Technology)

SYNERGISTIC DAMAGE MECHANICS MODELING OF FAILURE IN MULTIDIRECTIONAL COMPOSITE LAMINATES
Chandra veer Singh (University of Toronto)

DEPENDENCE OF INTERFACE PLY ORIENTATION ON DELAMINATION GROWTH DIRECTIONALITY AND MIGRATION
Carla Canturri (Imperial College of Science), Emile Smith Greenhalgh (Imperial College of Science), Silvestre T Pinho (Imperial College of Science)

MODELLING OF FLEXURAL BEHAVIOUR OF FUNCTIONALLY GRADED COATINGS
Maria Kashtalyan (University of Aberdeen), Maryam Heidari (University of Aberdeen), Igor Guz (University of Aberdeen)

EXPERIMENTAL AND NUMERICAL INVESTIGATIONS ON FRICTION EFFECTS IN 4ENF FRACTURE TESTS
John Botsis (Ecole Polytechnique Federal de Lausanne)

AN IMAGE BASED APPROACH TO MODELLING PLASTIC BONDED EXPLOSIVES (PBX) ON THE MICRO SCALE
Hari Arora (Imperial College of Science), Maria Charalambides (Imperial College of Science), Edmund Tarleton (University of Oxford), David M Williamson (University of Cambridge), Claire L Leppard

MATERIAL CHARACTERIZATION WITH REPRESENTATIVE VOLUME SIMULATIONS OF WOVEN POLYMER MATRIX COMPOSITES
Shawn A English (Sandia National Labs), Timothy Briggs (Sandia National Labs)

AN EXPERIMENTAL AND NUMERICAL STUDY OF THE EFFECT OF SOME MANUFACTURING DEFECTS
Tonny Nyman (Saab AB), Alann Andre (), Malin Akermo (Royal Institute of Technology), Sören Nilsson (Swerea SICOMP), Monica Norrby (Royal Institute of Technology)
THE EFFECT OF RUBBER THICKNESS AND LOAD RATE ON THE INTERFACIAL FRACTURE ENERGY IN STEEL/RUBBER/COMPOSITE HYBRID STRUCTURES
Essi Sarlin (Tampere University of Technology), Jyrki Vuorinen (Tampere University of Technology), Minnamari Vippola (Tampere University of Technology), Toivo Lepistö (Tampere University of Technology)

EXPERIMENTAL ANALYSIS OF DAMAGE IN FABRIC-REINFORCED COMPOSITES SUBJECTED TO LOW-VELOCITY IMPACTS
Vadim V. Silberschmidt (Loughborough University)

TENSILE PROPERTIES OF CARBON AND GLASS T-JOINTS AS A STRUCTURAL ELEMENT OF WIND TURBINE BLADE
Amirhossein Hajdaei (University of Manchester Institute of Science and Technology), Paul Jonathan Hogg (Royal Holloway and Bedford New College), Constantinos Soutis (University of Manchester)

COMPRESSIVE STRENGTH AND DAMAGE MECHANISMS IN STITCHED CARBON/EPOXY COMPOSITES
Arief Yudhanto (Tokyo Metropolitan University)

FRAGMENTATION ANALYSIS OF GLASS FIBRES RECOVERED FROM HYDROLYSIS PROCESSES
Yat-tarng Shyng (University of Exeter), Oana Ghita (University of Exeter)

DAMAGE CHARACTERIZATION OF A THIN PLATE MADE OF ABS UNDER UNIAXIAL SOLICITATION
Hicham Farid, Fouad Erchiqui, Fouad Slaoui Hasnaoui (University of Quebec Abitibi-Temiscamingue), Hassan Ezzaidi (University of Quebec at Chicoutimi), Mohamed Elghorba, Hkalid Elhad (Universite Hassan II - Ain Chock)

EXPERIMENTAL AND NUMERICAL STUDIES ON DAMAGE BEHAVIOR OF NYLON 6/CLAY NANOCOMPOSITES
Shaoning Song, Yu Chen, Zhoucheng Su, Chenggen Quan, Vincent Bc Tan (National University of Singapore)

FATIGUE DElamINATION GROWTH OF ENVIRONMENTALLY AGED/DEGRADED ADHESIVELY BONDED COMPOSITE JOINTS UNDER MODE I LOADING
Chun Li (National Research Council Canada), Tim Teng (National Research Council Canada), Gang Li (National Research Council Canada), Marko Yanishevsky (National Research Council Canada)

FAILURE ANALYSIS AND SIZE SCALING STUDY OF NOTCHED COMPOSITE LAMINATES
Dinh chi Pham (Institute of High Performance Computing A*STAR)
PRELIMINARY EVALUATION OF THE PERFORMANCE OF NOVEL FIBRE REINFORCED PEEL STOPPER CONCEPT IN SANDWICH STRUCTURES
Georgios Martakos (Aalborg University), Jens H. Andreasen (Aalborg University), Ole T. Thomsen (Aalborg University)

EXPERIMENTAL STUDY OF IMPACT DAMAGE RESISTANCE AND TOLERANCE OF COMPOSITE SANDWICH PANELS
Peter Nash (Loughborough University), Gang Zhou (Loughborough University), Sahdev Gahlay (Loughborough University), Mark Burt (Loughborough University)

FRACTURE BEHAVIOR OF CARBON FIBER REINFORCED POLYPROPYLENE UNDER ARTIFICIAL LIGHTNING STRIKE
Shinichiro Yamashita (The University of Tokyo), Isamu Ohsawa (The University of Tokyo), Akiyasu Morita (The University of Tokyo), Jun Takahashi (The University of Tokyo)

SHORT FIBER INTERFACIAL TOUGHENING FOR COMPOSITE-FOAM SANDWICH
Zhi Sun (Dalian University of Technology), Shiyong Sun (Dalian University of Technology), Shanshan Shi (Dalian University of Technology), Haoran Chen (Dalian University of Technology), Xiaoanzi Hu (University of Western Australia)

PREDICTING THE THROUGH-THICKNESS ENHANCEMENT OF Z-PINNED COMPOSITE LAMINATES
Galal F.a. Mohamed (University of Bristol), Fabrice Helenon (National Composites Centre), Stephen Richard Hallett (University of Bristol), Mehdi Yasaee (University of Bristol), Giuliano Allegri (University of Bristol)

DELAMINATION INITIATION DUE TO INTERLAMINAR TENSION IN FIBRE REINFORCED PLASTICS
Jamie Peter Blanchfield (University of Bristol), Giuliano Allegri (University of Bristol)

EXPERIMENTAL AND NUMERIC MULTISCALE ANALYSES OF FAILURE MECHANISMS ON PULTRUDED POLYMERIC COMPOSITE MATERIAL
Henri-alexandre Cayzac (Ecole Nationale Superieure des Mines de Paris), Sébastien Joannès (Ecole Nationale Superieure des Mines de Paris), Lucien Laiarinandrasana (Ecole Nationale Superieure des Mines de Paris)

CORELLATIONS OF DAMAGE MECHANISMS AND MATERIAL MICRO-STRUCTURE IN TENSILE LOADED HOOP STRUCTURES
Anna E Scott (University of Southampton), Ian Sinclair (University of Southampton), Simon M Spearing (University of Southampton), Mark N Mavrogordato (University of Southampton), Warren Hepples ()
IN-SITU TENSILE FIBRE FAILURE ANALYSIS BY SYNCHROTRON RADIATION COMPUTED TOMOGRAPHY
Hannah Morton (University of Southampton), Philippa Reed (University of Southampton), Ian Sinclair (University of Southampton), Simon M Spearing (University of Southampton), Anna E Scott (University of Southampton)

TIME AND TEMPERATURE INFLUENCE ON THE FAILURE OF TEXTILE COMPOSITES
Amine El mourid (Ecole Polytechnique de Montreal), Martin Lévesque (Ecole Polytechnique de Montreal), Rajamohan Ganesan (Concordia University)

MODELING OF MECHANICAL RESPONSE IN CFRP ANGLE-PLY LAMINATES
Shinji Ogiha (Tokyo University of Science), Hayato Nakatani (Osaka City University)

DESIGN OF TRANSVERSE BIAXIAL TENSILE TESTS ON CRUCIFORM SPECIMENS
Federico Paris (Universidad de Sevilla), Alberto Barroso (Universidad de Sevilla), Elena Correa (Universidad de Sevilla), Maria Dolores Pérez (Universidad de Sevilla), David Vega (Universidad de Sevilla)

FRACTURE MECHANICS OF COMPOSITE PLIES ON MICROSCALE

EFFECT OF VOIDS ON INITIAL FAILURE OF CFRP LAMINATES
Shigeki Aratama (Kawasaki Heavy Industries Ltd.), Yusuke Tsumura (Kyoto University), Masaaki Nishikawa (Kyoto University), Masaki Hojo (Kyoto University)

OPTIMISATION OF CARBON-FIBER COMPOSITE SHELLS FOR TYPE IV PRESSURE VESSELS
Clémence Devilliers (Air Liquide - CRCD), Anthony R. Bunsell, Alain Thionnet, Heng-yi Chou, Sébastien Joannès (Ecole Nationale Superieure des Mines de Paris)

THE MUTUAL EFFECTS OF SHEAR AND TRANSVERSE DAMAGE IN POLYMERIC COMPOSITES
Lloyd Smith (Washington State University), Mohammedmahdi Salavatian (Washington State University)

USING SPIRAL NOTCH TORSION TEST TO EVALUATE FRACTURE TOUGHNESS OF FIBER-REINFORCED POLYMERIC COMPOSITES
Jy-an John Wang (Oak Ridge National Laboratory), Ting Tan (University of Vermont), Hao Jiang (Oak Ridge National Laboratory)

FINITE ELEMENT MULTI-SCALE MODELING OF THE FAILURE MECHANISMS IN A 3D WOVEN COMPOSITE
Lucien Laiarinandrasana (Ecole Nationale Superieure des Mines de Paris), Wassim Trabelsi (Ecole Nationale Superieure des Mines de Paris), Alain Thionnet (Ecole Nationale Superieure des Mines de Paris)
FAILURE MODELLING OF IMPREGNATED FLAX YARNS FROM FIBRE AND INTERPHASE PROPERTIES
Shyam Mohan Panamoottil (University of Auckland), Raj Das (University of Auckland), Krishnan Jayaraman (University of Auckland)

DAMAGE ANALYSIS OF ALUMINUM / CFRP HYBRID BEAM UNDER THREE POINT BENDING
Hee chul Kim, Dong kil Shin, Jung goo Kim, Jung ju Lee (Korea Advanced Institute of Science & Technology), Kum cheol Shin (Shin Ansan University)

DAMAGE SUPPRESSION IN THIN PLY ANGLE-Ply CARBON/EPOXY LAMINATES
Jonathan Fuller (University of Bristol), Michael R Wisnom (University of Bristol)

DAMAGE EVOLUTION LAW IN THE FRAMEWORK OF CONTINUUM DAMAGE MECHANICS FOR UD COMPOSITES
Shuguang Li (University of Nottingham), Qing Pan (University of Nottingham), Tian-hong Yu (University of Nottingham)

DAMAGE TOLERANCE OF STIFFENED COMPOSITE STRUCTURES
Joanne Emma Davies (University of Southampton), Adam J. Sobey (University of Southampton), James I.r. Blake (University of Southampton), Ajit Shenoi (University of Southampton)

NUMERICAL ANALYSIS ON LOW-VELOCITY IMPACT DAMAGE OF LAMINATED COMPOSITES BY COMBINING CONTINUUM DAMAGE MECHANICS WITH COHESIVE ZONE MODEL
Xiaochen Sun (Shandong University), Peng Qu (Shandong University), Yunli Guo (Shandong University), Yuxi Jia (Shandong University)

DETERMINATION OF INTERFACIAL SHEAR STRENGTH IN EPOXY/GLASS COMPOSITES BY MULTI-FIBER FRAGMENTATION TEST (MFFT)
Edward David Mccarthy, Jae hyun Kim, Nathanael Alan Heckert, Stefan D. Leigh, Gale A Holmes, Jeffrey W. Gilman (National Institute of Standards and Technology (NIST))

INVESTIGATING DELAMINATION MIGRATION IN COMPOSITE TAPE LAMINATES
Nelson V De carvalho, James Gordon Ratcliffe

REPRESENTING TRANSLAMINAR FRACTURE AS A COHESIVE CRACK
Rita Teixeira (Imperial College of Science), Silvestre T Pinho (Imperial College of Science)

AN EXPERIMENTAL METHOD TO DETERMINE THE CRITICAL ENERGY RELEASE RATE ASSOCIATED WITH LONGITUDINAL COMPRESSIVE FAILLURE IN CFRP
Daniel Svensson (University College of Skovde), Ulf Stigh (University College of Skovde), Svante Alfredsson (University College of Skovde)
MICROMECHANICAL FAILURE ANALYSIS OF UNIDIRECTIONAL FIBER-REINFORCED COMPOSITES UNDER IN-PLANE AND TRANSVERSE SHEAR

Lei Yang (Beihang University), Ying Yan (Beijing University of Aeronautics and Astronautics), Zhiguo Ran (Beihang University)
FRACTURE AND DAMAGE – POSTER

ENVIRONMENTAL EFFECTS OF MOSITURE IN GLASS FIBER POLYMER REINFORCED COMPOSITES
Vladimir Alzamora Guzman

STATIC IMPLEMENTATION OF PERIDYNAMICS FOR THE SIMULATION OF CRACK PROPAGATION
Fabio Luongo, Mirco Zaccariotto, Ugo Galvanetto

PREDICTING DAMAGE PROPAGATION OF COMPOSITE T-JOINTS USING A MIXED DAMAGE MODEL
Jiye Chen

FAILURE ANALYSIS OF WOVEN FABTIC CURVED LAMINATE WITH VARIABLE THICKNESSES
Junqi Zhang, Longquan Liu, Hai Wang

EVALUATION OF SPLICE-TYPE CRACK ARRESTER UNDER MODE II TYPE LOADING FOR FOAM CORE SANDWICH PANEL
Yasuo Hirose, Hirokazu Matsuda, Go Matsubara, Masaki Hojo, Keishiro Yoshida

DAMAGE EVALUATION IN PAPER-BASED FRICTION MATERIALS SUBJECTED TO COMPRESSIVE LOADING
Tomoyuki Fujii, Keiichiro Tohgo, Naoya Urata, Yoshinobu Shimamura, Tomohiro Hasegawa, Shintaro Yagi, Yoichi Ito

CORROSION STUDIES OF SELECTED FIBRE METAL LAMINATES WITH CARBON AND GLASS FIBRES
Barbara Surowska

INFLUENCE OF THE INTERFACE ON THE APPARENT FRACTURE TOUGHNESS AND CRACK PROPAGATION DIRECTION IN LAYERED CERAMIC COMPOSITES
Lubos Nahlik, Bohuslav Masa, Pavel Hutar, Zdenek Majer

ACTIVE THERMOGRAPHY AS AN EVALUATION METHOD OF DELAMINATIONS IN COMPOSITE STRUCTURES
Przemyslaw Daniel Pastuszak, Aleksander Muc

DCB TEST SAMPLE OPTIMIZATION FOR MICRO-MECHANICAL TESTING
Sanita Zike, Lars Pilgaard Mikkelsen
AN INVESTIGATION INTO MATRIX CRACKING IN TRANSVERSE PLIES LEADING TO DELAMINATION CRACKS AT PLY BOUNDARIES.
Daniel J Mortell, David A Tanner, Conor T. McCarthy

DIRECT NUMERICAL SIMULATION OF DAMAGE PROGRESSION IN LAMINATED COMPOSITE PLATES USING MULTI-SCALE MODELLING
Nitesh Kumar Karna, Heejin Kang, Kookjin Park, Kyungmin Nam, Chanhoon Chung, Minkee Kim, Ikhyeon Choi, Sangjoon Shin

LOCAL STRAIN RATE EFFECT ON DAMAGE IN GLASS FIBER REINFORCED ETHYLENE-PROPYLENE COMPOSITE
Joseph Fitoussi, Michel Bocquet, Fodil Meraghni

MICROMECHANICAL MODELLING OF DAMAGE PROCESSES IN COMPOSITE MATERIALS
Darko Ivancevic, Ivica Smojver

ORTHOGONAL STITCHING OF 2D FABRICS FOR IMPROVED DELAMINATION RESISTANCE
William Richard Kennon, Prasad Potluri, Devrim Goktas

IN SITU DAMAGE MECHANISMS INVESTIGATION OF POLYAMIDE/SHORT GLASS FIBER COMPOSITE
Muhamad fatikul Arif, Nicolas Despringre, Yves Chemisky, Gilles Robert, Fodil Meraghni

FAILURE ASPECTS OF FIBER METAL LAMINATES AFTER LOW VELOCITY AND LOW ENERGY IMPACT
Jaroslaw Bienias
GREEN COMPOSITES

MULTIVARIABLE OPTIMISATION OF FIBRE REINFORCED HONEYCOMB SANDWICH PANELS
Sanjeev Rao (Centre for Advanced Composite Materials), Jeremy Chen (University of Auckland), Debes Bhattacharyya (University of Auckland)

EFFECT OF FLAX FIBRES INDIVIDUALISATION ON TENSILE FAILURE OF FLAX/EPOXY UNIDIRECTIONAL COMPOSITE
Guillaume Coroller (Universite de Bretagne Sud)

EFFECTS OF PRESS MOLDING CONDITIONS ON IMPREGNATION AND MECHANICAL PROPERTIES OF CARBON FIBER FABRIC/PA6 FILM COMPOSITE
Ousuke Ishida, Hiroshi Saito, Kiyoshi Uzawa, Isao Kimpara (Kanazawa Institute of Technology) Mitsugu Kimizu, Wataru Okumura (Industrial Research Institute of Ishikawa)

ELABORATION AND CHARACTERIZATION OF BIOCOMPOSITES FROM RICE HUSK, WHEAT HUSK AND PLA
Thao Tran (Ecole des Mines d'Alès), Jean-charles Benezet (Ecole Nationale Superieure des Mines d'Ales), Anne Bergeret (Ecole des Mines d'Alès)

STUDY ON CHEMICAL TREATMENT OF CELLULOSE FIBER TO IMPROVE HEAT RESISTANCE AND THE MECHANICAL PROPERTY OF COMPOSITE MATERIALS USING TREATED FIBER
Si Ha (Kyoto Institute of Technology), Teruo Kimura (Kyoto Institute of Technology), Haruhiro Ino (Kyoto Institute of Technology), Akihiro Suzuoka

PREPREG STYLE FABRICATION OF ALL-CELLULOSE COMPOSITES
Jeremias Schuermann (University of Canterbury), Tim Huber (University of Guelph), Mark P. Staiger (University of Canterbury)

INVESTIGATION OF SI-GEL-NR INTERACTION IN SI-GEL/NR VULCANIZATE AND THE EFFECT OF PEG ON THE RUBBER VULCANIZATED
Chanchai Thongpin (Silpakorn University)

MECHANICAL CHARACTERIZATION OF PLA-BAMBOO FIBERS GREEN COMPOSITE
Fernando Ramirez (Universidad de Los Andes), Mauricio Gonzalez (Universidad de Los Andes), Nelson Eduardo Barrera (Universidad de Los Andes), Sebastian Castellanos (Universidad de Los Andes)

BASALT FIBER REINFORCED POLY(LACTIC ACID) COMPOSITES FOR ENGINEERING APPLICATIONS
Tibor Czigany (Budapest University of Technology and Economics), Jozsef Gabor Kovacs (Budapest University of Technology and Economics), Tamas Tabi (Budapest University of Technology and Economics)
DEVELOPMENT OF MULTI-SCALE BIOCOMPOSITES FROM FLAX, NANOCELLULOSE AND EPOXY BY RESIN INFUSION
Steven Phillips (McGill University), Larry Lessard (McGill University), Pascal Hubert (McGill University), Peiyu Kuo (University of Toronto), Mohini Sain (University of Toronto), Cristian Demaria (McGill University)

MECHANICAL PROPERTIES OF GLASS SHORT FIBER/WOOD POWDER/POLYPROPYLENE HYBRID COMPOSITES
Ying Yu (Kyoto Institute of Technology), Yuqiu Yang (Donghua University), Manabu Nomura (), Hiroyuki Hamada (Kyoto Institute of Technology)

FABRICAION AND MECHANICAL PROPERTIES OF 3D JUTE FABRICS REINFORCED COMPOSITES
Jieng-chiang Chen (Vanung University), Chang-mou Wu (National Taiwan University of Science and Technology), Zi-jie Lin (Vanung University), Yi-an Teng (Feng Chia University)

FIRE RESISTANCE CELLULOSIC FIBERS FOR GREEN POLYMER COMPOSITES
T.-D. Ngo, M.-T. Ton-That, W. Hu (National Research Council of Canada)

COMPOSITE RECYCLING: CHARACTERIZATION OF AN END OF LIFE WIND TURBINE BLADE
Justine Beauson (Technical University of Denmark), Jakob Ilsted Bech (Technical University of Denmark), Povl Brøndsted (Technical University of Denmark)

INVESTIGATING THE FLEXURAL PROPERTIES OF BAMBOO FIBRE - PP COMPOSITES CONSOLIDATED UNDER INERT ATMOSPHERE
Eduardo Trujillo, Jan Vertommen, Lina Osorio, Aart Willem Van vuure, Jan Ivens, Ignaas Verpoest (Katholieke Universiteit Leuven)

A COMPLETE MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION OF BAMBOO TECHNICAL AND ELEMENTARY FIBERS
Lina Osorio, Eduardo Trujillo, Frederic Lens (University of Leiden), Jan Ivens, Aart Willem Van vuure, Ignaas Verpoest (Katholieke Universiteit Leuven)

INVESTIGATION OF STRENGTH RECOVERY OF RECYCLED HEAT TREATED GLASS FIBRES THROUGH CHEMICAL TREATMENTS
Eduardo Saez Rodriguez (University of Strathclyde), James Thomason (University of Strathclyde), Liu Yang (University of Strathclyde)
RECYCLING OF HIGH PERFORMANCE THERMOPLASTIC COMPOSITES WITH HIGH VOLTAGE FRAGMENTATION
Clemens Dransfeld (University of Applied Sciences and Arts Northwestern Switzerland), Maxime Roux (University of Applied Sciences and Arts Northwestern Switzerland), Nicolas Eguemann (Cross Composite AG), Lian Giger (Cross Composite AG)
HEALTH MONITORING

DELMINATION DETECTION OF ROTORCRAFT FLEX BEAM USING FRACTAL DIMENSIONS
Keshava Kumar S (Indian Institute of Science), Ranjan Ganguli (Indian Institute of Science), Dineshkumar Harursampath (Indian Institute of Science)

STRUCTURAL HEALTH MONITORING (SHM) OF COMPOSITE AEROSPACE STRUCTURES USING LAMB WAVES
Shashank Pant (Carleton University), Jeremy Laliberte (Carleton University), Marcias Martinez (Delft University of Technology)

THERMAL AND ULTRASONICS DAMAGE MONITORING AND CHARACTERIZATION IN WOVEN COMPOSITES
Jean-michel Roche (ONERA)

PROCESS OPTIMISATION FOR MILLING CARBON/EPOXY COMPOSITE MATERIAL USING RESPONSE SURFACE METHODOLOGY AND VIBRATION ANALYSIS
Hicham Chibane (Ecole Nationale d'Ingénieurs du Val de Loire), Roger Serra (Ecole Nationale d'Ingénieurs du Val de Loire), Antoine Morandeau (Universite Francois Rabelais de Tours), René Leroy (Universite Francois Rabelais de Tours)

CURE MONITORING OF AN AUTOCLAVE MANUFACTURED INDUSTRIAL PART: ADDED VALUE OF COMPLEMENTARY INSTRUMENTATION

STRUCTURAL GLASS FIBRES FOR OPTICAL DAMAGE, CURE AND MOISTURE INGRESS SENSING IN ADVANCE REINFORCED POLYMER COMPOSITES
Peter Wilson (University of Sheffield), Simon Antony Hayes (University of Sheffield), Russell Hand (University of Sheffield)

PROCESS MONITORING OF FRP LAMINATES BY EMBEDDED FIBER OPTIC SENSORS
Tatsuro Kosaka (Kochi University of Technology), Akihiro Matsumoto (Kochi University of Technology), Takuya Kajikawa (Kochi University of Technology), Masayo Koike (Kochi University of Technology), Kazuhiro Kusukawa (Kochi University of Technology)
HEALTH MONITORING, MULTIFUNCTIONAL AND NDE – POSTER

IMPROVING ROBOTIZED NON DESTRUCTIVE TESTING FOR LARGE PARTS WITH LOCAL SURFACE APPROXIMATION AND FORCE CONTROL SCHEME
Olivier Patrouix, Sébastien Bottecchia, Joseph Canou

NON-DESTRUCTIVE INSPECTION OF CFRPS USING INDUCTION HEATING THERMOGRAPHY
Yuuki Shiiya, Masashi Ishikawa, Yasuo Kogo, Hiroshi Hatta, Yoshio Habuka

INSPECTION EFFECTIVENESS OF ULTRASONIC TEST FOR SEVERAL DEGRADED FRP TANKS IN RBI
Masahiro Kusano, Tetsuya Sakai, Saiko Aoki, Masatoshi Kubouchi

COMPARISON OF THREE NDT TECHNIQUES FOR THE INSPECTION OF AERONAUTIC COMPOSITE STRUCTURES
Robin Dube, Laurent Scheed, Jacques Lewandowski, Laura Mouret, Marc P. Georges

FULL FIELD STRAIN CHARACTERISTICS OF COMPOSITE LAMINATE WITH IMPACT DAMAGE UNDER IN-PLANE LOAD
Yu Zhefeng, Ba Taxi, Hai Wang

REDUCTION OF PHASE NOISE TO ENHANCE DETECTABLE DEPTH OF DEFECTS IN CFRPS USING PULSE PHASE THERMOGRAPHY
Masashi Ishikawa, Hiroshi Hatta, Yoshio Habuka, Shin Utsunomiya

INFLUENCE OF STRESS FIELD AT OVERLAP EDGE OF CFRP SINGLE-LAP JOINT ON FIBER OPTIC DISTRIBUTED SENSING USING EMBEDDED FBG
Daichi Wada, Ning Xiaoguang, Hideaki Murayama

PREPARATION AND CHARACTERIZATION OF OPTICAL FIBERS EMBEDDED SMART GEOCOMPOSITE
Seung woo Han, Yeong og Choi

TOWARDS STRAIN-BASED STRUCTURAL HEALTH MONITORING OF A COMPOSITE AIRFOIL UNDER UNCERTAINTY
Hessamodin Teimouri, Abbas Milani, Rudolf Seethaler, Ali Abedian, Amir Heidarzadeh, Behnam Teimouri

IMPACT OF MWCNT ON ELECTRICAL CONDUCTIVITY OF CARBON FIBER MULTISCALE COMPOSITES
Maxime Arguin, Daniel Therriault, Frederic Sirois
IMPACT & DYNAMIC RESPONSES

A MECHANICAL MODEL FOR LAMINATED SHELLS WITH COHESIVE INTERFACES LOADED DYNAMICALLY: VERIFICATION AND APPLICATIONS
Francesca Campi (University of Genoa), Roberta Massabo (University of Genoa)

IRREVERSIBLY ABSORBED ENERGY AND DAMAGE IN GFRP LAMINATES IMPACTED AT LOW-VELOCITY
Giuseppe Villani (University of Naples), Claudio Leone (University of Naples Federico II), Valentina Lopresto (University of Naples Federico II), Antonio Langella (University of Naples Federico II), Giancarlo Caprino (University of Naples Federico II)

NONLINEAR RESPONSE OF SHELLS TO BLAST AND IMPACT
Serge Abrate (Southern Illinois University at Carbondale)

EXPERIMENTAL STUDY OF OBLIQUE IMPACTS ON HELICOPTER BLADES – FORCE GAUGING BY DIGITAL IMAGE CORRELATION
Jean-charles Passieux (Institut Clément Ader), Pablo Navarro (Institut Clément Ader), Julien Aubry (Institut Clément Ader), Steven Marguet (Institut Clément Ader), Jean-françois Ferrero (Institut Clément Ader), Jean-noel Périé (Institut Clément Ader)

OFFSET FAILURE IN FILLED HOLE COMPRESSION TESTS
Bruno Castanié (Institut Clément Ader)

EDGE IMPACT DAMAGE SCENARIO ON STIFFENED COMPOSITE STRUCTURE
Ostre Benjamin (Institut Supérieur de l’aéronautique et de l’Espace ISAE)

HIGH VELOCITY IMPACT RESPONSE OF E-GLASS/EPOXY COMPOSITES MODIFIED WITH NH2-MWCNT
Muhammad M Rahman (Tuskegee University), Mahesh Hosur (Tuskegee University), Shaik Zainuddin (Tuskegee University), Shaik Jeelani (Tuskegee University)

IMPROVING BLAST RESISTANCE OF HIGHWAY BRIDGES BY USING FRP
Yuxin Pan (Sichuan University), Moe m s Cheung (Sichuan University)

BALLISTIC IMPACT OF THERMOPLASTIC COMPOSITES REINFORCED WITH CARBON FIBERS
Hideaki Kasano (Takushoku University), Mohd azwan shahady Adzmi (Takushoku University)

CRITERIA FOR SKIN RUPTURE AND CORE SHEAR CRACKING DURING IMPACT ON SANDWICH PANELS
Robin Olsson (Swerea SICOMP), Tim Berend Block (Faserinstitut Bremen e.V.)
MULTILAYER BALLISTIC SYSTEMS BASED ON DRY FABRICS
Francisca Martínez hergueta (IMDEA Materials), Carlos Daniel González (IMDEA Materials), Javier Llorca (IMDEA Materials), Tamara Blanco varela (), Jose J Martínez ()

HYPERVELOCITY IMPACT OF SPACE DEBRIS ON MULTIPLE COMPOSITE BUMPERS: EXPERIMENTS & SIMULATIONS USING LS-DYNA
Abrar-ul-haq khan Baluch (Korea Advanced Institute of Science & Technology), Yurim Park (Korea Advanced Institute of Science & Technology), Chun Gon Kim (Korea Advanced Institute of Science & Technology), Yunho Kim (Korea Advanced Institute of Science & Technology)

REDUCTION OF SHOCK WAVE AMPLIFICATION IN MULTIPLE BALLISTIC FABRIC LAYER SYSTEMS
Andi Haris (National University of Singapore), Heow pueh Lee (National University of Singapore), Tong earn Tay (National University of Singapore), Boo cheong Khoo (National University of Singapore), Vincent Bc Tan (National University of Singapore)

INVESTIGATION OF COMPRESSIVE FAILURE IN ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE (DYNEEMA®) FIBER COMPOSITES
Julia Patton Attwood (University of Cambridge), Vikram S Deshpande (University of Cambridge), Norman A Fleck (University of Cambridge)

HIERARCHICAL LIGHTWEIGHT COMPOSITES: GF FABRICS EMBEDDED IN MICROCELLULAR NANOComposite PEN
Luigi Sorrentino (Consiglio Nazionale delle Ricerche), Livia Cafiero (Consiglio Nazionale delle Ricerche), Salvatore Iannace (National Research Council)

NUMERICAL AND EXPERIMENTAL DYNAMIC ANALYSIS FOR A CFRP FORMULA SAE IMPACT ATTENUATOR
Simonetta Boria (University of Camerino), Jovan Obradovic (Polytechnic Institute of Turin), Giovanni Belingardi (Polytechnic Institute of Turin)

IMPACT ABSORPTION OF COMPOSITES WITH SHEAR THICKENING FLUID FILLED FOAMS
Veronique Michaud (École polytechnique fédérale de Lausanne)

ANALYSIS ON LOW-VELOCITY IMPACT DAMAGE OF LAMINATED COMPOSITES USING CDM AND CZM MODELS
Yuxi Jia (Shandong University)

MECHANICAL BEHAVIOUR OF GLASS FIBER REINFORCED ALUMINIUM HONEYCOMB SANDWICHES
Emre Kara (Hitit University), Vincenzo Crupi (University of Messina), Gabriella Epasto (University of Messina), Eugenio Guglielmino (University of Messina), Halil Aykul ()
COMPRESSION AFTER IMPACT STRENGTH OF A BUCKLING RESISTANT TOW STEERED PANEL
Andrew Thomas Rhead (University of Bath), Richard Butler (University of Bath), Wenli Liu (University of Bath), Stephen Richard Hallett (University of Bristol), Byungchul Kim (University of Bristol)

EFFECT OF BASALT FIBRE HYBRIDIZATION ON THE LOW VELOCITY IMPACT BEHAVIOUR OF WOVEN CARBON FIBRE/EPOXY LAMINATES
Luca Ferrante, Fabrizio Sarasini, Jacopo Tirillò, Marco Valente, Teodoro Valente (University of Roma La Sapienza), Salvatore Cioffi (Consiglio Nazionale delle Ricerche), Salvatore Iannace (National Research Council), Luigi Sorrentino (Consiglio Nazionale delle Ricerche)

IMPACT BEHAVIOUR OF ELASTOMER BASED FIBRE METAL LAMINATES
Raj Das (University of Auckland), Sanjeev Rao (Centre for Advanced Composite Materials), Richard Lin

COMPARISON OF THE THROUGH THICKNESS STRAIN RATE SENSITIVITY OF E-GLASS/LPET AND E-GLASS/EPOXY UD LAMINATES
Rasmus Eriksen (Technical University of Denmark), Janice Marie Dulieu-barton (University of Southampton), Duncan Andrew Crump (University of Southampton), Christian Berggreen (Technical University of Denmark)

CURE MULTIPHYSIC COUPLINGS EFFECTS ON THE DYNAMIC BEHAVIOUR OF A THICK EPOXY
Christian Jochum (École Nationale Supérieure de Techniques Avancées, Bretagne)

STUDY ON PREDICTION OF PENETRATION ENERGY FOR CA/EP COMPOSITE LAMINATES SUBJECTED TO HIGH VELOCITY IMPACT USING QUASI-STATIC PERFORATION EQUATION AND KINETIC ENERGY MODEL
Hyun-jun Cho (Chungnam National University), Seokje Lee (Chungnam National University), In-gul Kim (Chungnam National University), Kyeongsik Woo (Chungbuk National University)

IMPACT BEHAVIOR OF A SIMPLE MULTIFUNCTIONAL PLATE STRUCTURE
Teo Mudric, Ugo Galvanetto, Alessandro Francesconi, Cinzia Giacomuzzo, Mirco Zaccariotto, Antonio Mattia Grande, Luca Di landro (Polytechnic Institute of Milan)

TESTING OF SANDWICH STRUCTURES WITH CFRP SKINS IN EDGewise COMPRESSION
Dirk Lukaszewicz (BMW Group), Sindy Engel (Technische Universitat Bergakademie Freiberg), Christian Boegle (BMW Group)

FAILURE OF SINGLY CURVED SANDWICH PANELS SUBJECTED TO BLAST LOADING
Chris Von klemperer (University of Cape Town), Genevieve Langdon (University of Cape Town), Gerald N Nurick (University of Cape Town), Gregory Sinclair (University of Cape Town)

BIRD IMPACT STUDY OF A PRELOADED COMPOSITE WIND TURBINE BLADE
Norimichi Nanami (Texas A&M University), Ozden O Ochoa (Texas A&M University)
EFFECT OF VARIOUS KNITTING TYPES ON IMPACT PROPERTIES OF TEXTILE COMPOSITES
Ozgur Demircan (Kyoto Institute of Technology), Tadashi Fujimura (Shima Seiki Mfg., Ltd.), Shinsuke Ashibe (SHIMA SEIKI Mfg. Ltd.), Tatsuya Kosui (SHIMA SEIKI MFG. Ltd..), Asami Nakai (Gifu University)

MODAL ANALYSIS OF COMPOSITE SANDWICH STRUCTURES WITH VISCOELASTIC LAYERS
Christophe Leclerc (Ecole Polytechnique de Montreal), Edith roland Fotsing (Ecole Polytechnique de Montreal), Annie Ross (Ecole Polytechnique de Montreal)

DAMAGE RESISTANCE AND DAMAGE TOLERANCE OF COMPOSITE LAMINATES WITH DISPERSED STACKING SEQUENCES
Claudio Saul Lopes (IMDEA Materials), Tamer Abdella Sebaey (Zagazig University), Emilio V González (Universidad de Gerona), Norbert Blanco (Universidad de Gerona), Josep Costa (Universidad de Gerona)
IMPACT FATIGUE AND DURABILITY - POSTER

DURABILITY AND RELIABILITY ASSESSMENT OF CARBON FIBER REINFORCED POLYMERS IN CIVIL APPLICATIONS
Joo Hwan Yoo, Ki young Kim

HIGH CYCLE FATIGUE LIFE EVALUATION OF DAMAGED COMPOSITE ROTOR BLADES
Youngjung Kee, Seungho Kim

THE INFLUENCE OF TEMPERATURE ON THE STRAIN-RATE DEPENDANT MATERIAL BEHAVIOUR OF CFRP UNDER HIGH-DYNAMIC LOADING
Ralph Bochynek

EFFECT OF EMBEDDED FIBER OPTIC SENSOR LENGTH AND ORIENTATION ON SIGNAL PROPERTIES DURING FATIGUE LOADING
Casey James Keulen, Afzal Suleman, Halit Suleyman Turkmen, Erdem Akay, Esat Selim Kocaman, Mehmet Yildiz

INFLUENCE OF LOW VELOCITY IMPACT ON THE FATIGUE BEHAVIOR OF WOVEN HEMP/EPOXY COMPOSITE
Davi Silva De vasconcellos

VIRTUAL TESTING METHODOLOGY FOR THE DEVELOPMENT OF ADVANCED LIGHTWEIGHT DEBRIS CONTAINMENT SYSTEM
Augustin Gakwaya, Ameur Benkhelifa, Dennis Nandllall, Amal Bouamoul, Marie laure Dano

ENVIRONMENTAL CONDITIONING EFFECTS ON THE MECHANICAL PROPERTIES OF TITANIUM FIBER-METAL LAMINATES
Edson Cocchieri Botelho, Diego Fernando Silva, Antonio carlos Ancelotti jr, Cesar Augusto Damato

INTERFACIAL ADHESION AND FATIGUE RESISTANCE OF POLYKETONE/ RUBBER COMPOSITE
Jongsung Won, Jaejung Yoo, Sunyoung Lee, Seunggoo Lee

BALLISTIC IMPACT BEHAVIOR OF CARBON NANOTUBE DISPERSED EPOXY RESIN: PARAMETRIC STUDIES
Kedar Sanjay Pandya, Niranjan K Naik

WEAR RESISTANCE INFLUENCERS OF PARTICLE REINFORCED POLYMER COMPOSITE
Aare Aruniit, Jaan Kers, Andres Krumme

EXPERIMENTAL DETERMINATION OF AGEING AND DEGRADATION OF GLASS FIBRE REINFORCED COMPOSITES IN PETROCHEMICAL APPLICATIONS
Anastasios Toulitsis, Morris Roseman, Roderick Martin, Vassilis Kostopoulos
OPTIMIZATION OF IMPACT PERFORMANCE OF COMPOSITES USING ARTIFICIAL NEURAL NETWORKS AND EVOLUTIONARY ALGORITHMS
Abul fazal M Arif, Muhammad Haris Malik

FOREIGN OBJECT IMPACT DAMAGE SIMULATION OF TITANIUM MATRIX COMPOSITES
Tomohiro Yokozeki, Naoki Kootsuka, Kouta Fujiwara, Toyohiro Sato, Akinori Yoshimura, Hirokazu Shoji

FATIGUE TESTING OF CLOSED-CELL FOAMS, SPECIMEN DESIGN AND VISCOELASTIC CHARACTERIZATION
Raphael Gerard, Jamal Fajoui, Frédéric Jacquemin, Pascal Casari

THERMAL BEHAVIOUR OF GLASS FIBRE INVESTIGATED BY THERMOMECHANICAL ANALYSIS
L. Yang, J. Thomason
INTERFACE

STUDY ON INTERFACE COMPATIBILITY OF CARBON FIBER/EPOXY RESIN COMPOSITE BY SINGLE FIBER FRAGMENTATION TEST
Guo Congcong (Beihang University), Zhan Maosheng (Beihang University), Zhi Yang (Xian Aircraft Industry Corporation)

INTERLAMINAR FRACTURE TOUGHNESS OF NACRE: A HIGH PERFORMANCE BIOLOGICAL COMPOSITE
Ahmad Khayer dastjerdi (McGill University), Reza Rabiei (McGill University), Francois Barthelat (McGill University)

STRUCTURATION OF ADHESION PROMOTERS AT INTERFACES: A MOLECULAR LEVEL INVESTIGATION
Maurice Brogly (Universite de Haute-Alsace)

STUDY OF INTERPHASE IN EXFOLIATED GRAPHITE NANOPLATELETS/POLYAMIDE12 NANOCOMPOSITES
Mehdi Karevan (Georgia Institute of Technology), Kyriaki Kalaitzidou (Georgia Institute of Technology)

FIBER-MATRIX INTERFACE REINFORCEMENT USING ATOMIC LAYER DEPOSITION
Sari Katz (Soreq NRC), Yacov Carmiel (Bar-Ilan University), Irina Gouzman (Soreq NRC), Chaim Sukenik (), Daniel wagner (), Eitan Grossman (Soreq NRC)

DURABILITY AND INTERPHASES IN ADHESIVELY BONDED EPOXY-POLYESTER INTERFACES
Mikko Samuli Kanerva (Aalto University), Essi Sarlin (Tampere University of Technology), Kosti Rämö (Tampere University of Technology), Olli Saarela (Aalto University)

INFLUENCE OF POWDER COATING PRE-CURING TIME ON INTERFACE COATING/EPOXY MATRIX COMPOSITE
Aurore Lafabrier (Universite de Toulon et du Var), Ahmad Fahs (Universite de Toulon et du Var), Emmanuel Aragon (Universite de Toulon et du Var), Jean-francois Chailan (Universite de Toulon et du Var)

PRE-TREATMENT OF CFRP FOR ADHESIVE BONDING USING LOW-PRESSURE BLASTING
Stefan Kreling (Technische Universitat Carolo-Wilhelmina Braunschweig), Fabian Fischer (Technische Universitat Carolo-Wilhelmina Braunschweig), Klaus Dilger (Technische Universitat Carolo-Wilhelmina Braunschweig)

INVESTIGATIONS OF INTERFACIAL ADHESION BETWEEN PZT FIBERS AND EPOXY MATRICES
Guido Sebastian Sommer (Leibniz Institute of Polymer Research Dresden), Edith Maeder (Leibniz Institute of Polymer Research Dresden), Jan Sander (Leibniz Institute of Polymer Research Dresden)
EFFECT OF CYCLIC HYGROTHERMAL AGING ON THE INTERLAMINAR SHEAR STRENGTH OF CARBON FIBER/BISMALEIMIDE(BMI) COMPOSITE
Ye Li (Beihang University), Yan Zhao (Beihang University), Dong Xiao Sui (Beihang University)

TEMPERATURE DEPENDENCE OF THE INTERFACIAL SHEAR STRENGTH IN GLASS REINFORCED POLYPROPYLENE AND EPOXY COMPOSITES
James Thomason (University of Strathclyde), Liu Yang (University of Strathclyde)

THERMAL PROPERTIES OF CARBON MATERIALS REINFORCED ALUMINUM COMPOSITES FABRICATED BY HOT PRESSING WITH SEMI-LIQUID PHASE
Hiroki Kurita (ICMCB), Jean-marc Heintz (ICMCB), Jean-francois Silvain (Centre National de la recherche scientifique CNRS)

CHEMICAL GRAFTING CNT ONTO CF SURFACE BY ELECTROPHORESIS METHOD
Yuxin Li (Harbin Institute of Technology)

A NEW HIERARCHICAL REINFORCEMENT: GRAFTING GRAPHENE OXIDE ONTO CARBON FIBER
Qingyu Peng (Harbin Institute of Technology)

CARBON NANOTUBE REINFORCED FIBER/EPOXY MULTI-SCALE HYBRID COMPOSITES VIA ELECTROPHORETIC DEPOSITION: MULTIFUNCTIONAL PROPERTIES, PROCESSING, CHARACTERIZATION AND MODELING
Qi An (University of Delaware), Andrew N Rider (Australian Government Defence Science and Technology Organisation), Erik T Thostenson (University of Delaware)

MECHANICAL PERFORMANCE OF GLASS WOVEN FABRIC COMPOSITE: EFFECT OF HYBRID INTERPHASE WITH DIFFERENT SURFACE TREATMENT AGENTS
Kohsuke Togashi (Kyoto Institute of Technology), Mengyuan Liao (Kyoto Institute of Technology), Yuqiu Yang (Donghua University), Hiroyuki Hamada (Kyoto Institute of Technology)

SURFACE MODIFICATIONS ON BASALT FIBERS
Yanpei Li (Donghua University, Shanghai), Jilong Wang (Donghua University, Shanghai), Hiroyuki Hamada (Kyoto Institute of Technology), Yiping Qiu (Donghua University, Shanghai), Yang Yuqiu (Donghua University, Shanghai)

ADHESION BETWEEN A FLAX FIBER AND BIOBASED THERMOSET MATRIX
Laetitia Marrot (Universite de Bretagne Sud)

MOLECULAR MODELING OF EPON-862/GRAPHITE COMPOSITES: INTERFACIAL CHARACTERISTICS
Cameron Hadden (Michigan Technological University)
CURING REACTION OF BENZOXAZINE CONTAINING CYANO AND PROPARGYL GROUPS
Qiao Long Yuan (East China University of Science and Technology), Lei Du (East China University of Science and Technology), Farong Huang (East China University of Science and Technology)

CHARACTERIZATION OF SHORT GLASS-FIBRE REINFORCED POLYPROPYLENE COMPOSITES IN TENSION AND COMPRESSION
Michael Jerabek (Borealis Polyolefine GmbH), Simon Gastl (Borealis Polyolefine GmbH), Anna Maria Hartl (Johannes Kepler University Linz), Martin Reiter (Johannes Kepler University Linz)

EFFECT OF Au-ION IRRADIATION ON SILICON CARBIDE COMPOSITES
Nihed Chaâbane, Marion Le flem, Thierry Vandenbergh, Stéphane Urvoy, Paul Dumas, Yves Serruys (Commissariat a lenergie atomique et aux energies alternatives CEA)

PIEZO-RESISTIVE BEHAVIOUR OF MULTIFUNCTIONAL CNT REINFORCED INTERPHASES IN GF/PP COMPOSITES DURING THERMAL-MECHANICAL LOADING
Niclas Wiegand (Leibniz Institute of Polymer Research Dresden), Edith Maeder (Leibniz Institute of Polymer Research Dresden)

SURFACE TREATMENT OF CARBON FIBERS BY ULTRAVIOLET LIGHT+OZONE: ITS EFFECT ON FIBER SURFACE AREA AND TOPOGRAPHY
Michael Rich (Michigan State University), Lawrence T Drzal (Michigan State University), Edward K Drown (Michigan State University), Per Askeland (Michigan State University)

INTERFACIAL EVALUATION OF CARBON FIBER/CNT-PHENOLIC COMPOSITES BY DUAL MATRIX COMPOSITES
Joung-man Park (Gyeongsang National University), Zuo jia Wang (Gyeongsang National University), Dong-jun Kwon (Gyeongsang National University), Ga-young Gu (Gyeongsang National University), Lawrence K. Devries (University of Utah)

INVESTIGATION OF SUBCRITICAL CRACK GROWTH IN GLASS FIBERS USING LOAD RELAXATION TESTS ON BUNDLES
Jacques Luc Lamon (Centre National de la recherche scientifique CNRS)

SIMULATION OF THE MECHANICAL BEHAVIOR OF A THREE DIMENSIONAL COMPOSITE
Alain Rassineux (Universite de Technologie de Compiègne), Manh hung Ha (Universite de Technologie de Compiègne), Ludovic Cauvin (Universite de Technologie de Compiègne)

PHASE SEPARATED EPOXY/POM MATRIX FOR CARBON FIBRE REINFORCED COMPOSITES
Mohammadali Aravand (Katholieke Universiteit Leuven), Larissa Gorbatikh (Katholieke Universiteit Leuven), Stepan V. Lomov (Katholieke Universiteit Leuven), Igaas Verpoest (Katholieke Universiteit Leuven)
INFLUENCE OF CROSSLINK RATIO ON THE MECHANICAL PROPERTIES OF POLYMERIC NANOCOMPOSITES AND INTERPHASE: A MOLECULAR DYNAMICS SIMULATION
Byungjo Kim (Seoul National University), Joonmyung Choi (Seoul National University), Suyoung Yu (Seoul National University), Seunghwa Yang (Dong-A University), Maenghyo Cho (Seoul National University)

DETERMINING THE MECHANICAL INTERPHASE THICKNESS OF POLYMERIC NANOCOMPOSITES USING MULTISCALE APPROACH
Joonmyung Choi (Seoul National University), Hyunseong Shin (Seoul National University), Suyoung Yu (Seoul National University), Seunghwa Yang (Dong-A University), Maenghyo Cho (Seoul National University)

CNT-GRAFTED CARBON FIBER COMPOSITES: CHARACTERIZATION OF THE FIBER/MATRIX INTERFACE
Niels Degreef (Katholieke Universiteit Leuven), Aranud Magrez (École polytechnique fédérale de Lausanne), Jean-pierre Locquet (Katholieke Universiteit Leuven), László Forró (École polytechnique fédérale de Lausanne), Jin won Seo (Katholieke Universiteit Leuven)

PRODUCTION AND EVALUATION OF INTRA-FILAMENT HYBRIDS
Richard Murray (University of Birmingham)

SURFACE TREATMENT OF CONTINUOUS FIBER FOR IMPREGNATION AND MECHANICAL PROPERTIES OF THERMOPLASTIC COMPOSITES
Koichi Bun (Kyoto Institute of Technology), Jun Hirai (Tsudakoma Corporation), Asami Nakai (Gifu University), Hiroyuki Hamada (Kyoto Institute of Technology), Akira Fudauchi (Kyoto Institute of Technology)

FINITE ELEMENT ANALYSIS OF DELAMINATION GROWTH WITH FRACTURE RESISTANCE DEPENDENT ON MIXED-MODE RATIO AND FIBER ORIENTATION
Atsushi Kondo (Tokyo Metropolitan University), Yasuhito Mikami (Tokyo Metropolitan University)

INTERFACE DESIGN OF 3D WIRE STRUCTURES FOR METAL MATRIX COMPOSITES
Steffen Kaina (Technische Universität Dresden), Bernd Kieback (Technische Universität Dresden), Daniel Weck (Technische Universität Dresden), Olaf Andersen (Fraunhofer IFAM Dresden), Günter Stephani, Eva Kieselstein, Andreas Bascha

NOTCHED-BUTT TEST FOR THE DETERMINATION OF ADHESION STRENGTH AT BIMATERIAL INTERFACES
Bernd Lauke (Leibniz-Istitut für Polymerforschung Dresden e.V.), Alberto Barroso (Universidad de Sevilla)

TENSILE PROPERTIES OF PAN- AND PITCH-BASED HYBRID CARBON FIBER REINFORCED EPOXY MATRIX COMPOSITES

Organized by Canadian Association for Composite Structures and Materials (CACSMA)
Kimiyoshi Naito (National Institute for Materials Science)

**IMPROVEMENT OF INTERFACIAL SHEAR STRENGTH USING ELECTROSTATICALLY DEPOSITED NANO-PARTICLES**
Benjamin Rutz (University of Washington), John C Berg (University of Washington)

**NUMERICAL APPROACH FOR EFFECTIVE PROPERTIES OF WOOD COMPOSITES WITH PARTIAL RESIN COVERAGE OF STRANDS**
Sardar Malekmohammadi (University of British Columbia), Benjamin Tressou (Institut Pprime CNRS ISAE-ENSMA), Carole Nadot-martin (Institut Pprime CNRS ISAE-ENSMA), Fernand Ellyin (University of British Columbia), Reza Vaziri (University of British Columbia)
INTERLAMINAR REINFORCEMENTS

DELAMINATION PERFORMANCE OF TUFTED CARBON/EPOXY COMPOSITES MADE BY AUTOMATED DRY FIBRE PLACEMENT
Diego Marcelo Lombetti (Cranfield University), Giuseppe Dell'anno (Cranfield University), Ivana Katherine Partridge (University of Bristol), Alex Skordos (Cranfield University)

INTERLAMINAR REINFORCEMENT BY ALIGNED CARBON NANOTUBES IN CARBON FIBER REINFORCED POLYMER COMPOSITES
Felix N Nguyen (Toray Composites (America)), Kenichi Yoshioka (Toray Industries Inc.), Al Haro (Toray Composites America Inc.), Noriyuki Hirano (Toray Industries Inc.), Swezin Than Tun (Toray Composites (America)), Raquel Ovalle Robles (University of Texas at Dallas)

COMPATIBILITY ASSESSMENT BETWEEN INTERLEAVING NANOFIBERS AND COMPOSITE LAMINATES
Kunigal N Shivakumar (North Carolina A&T State University), Sandi G Miller (NASA), Raghu Panduranga (North Carolina Agricultural and Technical State University), Matthew M Sharpe (North Carolina Agricultural and Technical State University)

MECHANICAL PROPERTIES OF WOVEN FIBERGLASS COMPOSITE LAMINATE INTERLEAIVENED WITH GLASS NANOFIBERS
Ajit D. Kelkar (North Carolina A&T State University), Ram Mohan (North Carolina A&T State University), Dattaji Shinde (North Carolina A&T State University), Evan Kimbro (North Carolina A&T State University)

EFFECT OF NAPS WITH ANISOTROPIC ORIENTATION BETWEEN LAYERS ON MECHANICAL PROPERTIES OF WOVEN COMPOSITES
Jun Hirai (Tsudakoma Corporation), Akio Ohtani (Gifu University), Asami Nakai (Gifu University), Hiroyuki Hamada (Kyoto Institute of Technology)

FABRICATION OF SELF-AMELIORATING MICROPHASES BETWEEN COMPOSITE PLIES BY INKJET PRINTING
Yi Zhang (University of Sheffield)

INTERLAMINAR CHARACTERISTICS OF CFRP WITH THERMOPLASTIC PARTICLES
Takayuki Uno (Gifu University), Akio Ohtani (Gifu University), Asami Nakai (Gifu University), Teiji Ito (Daicel-Evonik Ltd.), Eiji Takenaka (Daicel-Evonik Ltd.), Mitsuteru Mutsuda (Daicel-Evonik Ltd.)

PLASMA TREATED CARBON NANOTUBE COATINGS ON THE FRACTURE TOUGHNESS OF GLASS PREPREGS.
John Williams (University of Bristol), Sameer Rahatekar (University of Bristol)
JOINTS

EFFECTS OF PROCESSING PARAMETERS ON ELECTRO-FUSION JOINING BEHAVIOR OF CF/PPS COMPOSITES
Daiki Tanabe (Osaka University), Shinji Tsutaya (Kinki University), Kazuaki Nishiyabu (Kinki University), Tetsusei Kurashiki (Osaka University)

SURFACE PRE-TREATMENT OF CFRP BY USING LASER RADIATION
Fabian Fischer (Technische Universität Carolo-Wilhelmina Braunschweig), Stefan Kreling (Technische Universität Carolo-Wilhelmina Braunschweig), Klaus Dilger (Technische Universität Carolo-Wilhelmina Braunschweig)

EVALUATION OF BEARING DAMAGE BEHAVIOR IN THIN TITANIUM FILMS-CFRP HYBRID LAMINATE
Tomoki Yamada (Tokyo University of Science), Hayato Nakatani (Osaka City University), Shinji Ogihara (Tokyo University of Science)

COMPARISON OF MECHANICAL PROPERTIES IN WELDING JOINT METHODS OF CF/PP
Yasutomo Nomura (The University of Tokyo), Kiyoshi Uzawa (Kanazawa Institute of Technology), Hideaki Murayama (The University of Tokyo), Isamu Ohsawa (The University of Tokyo), Jun Takahashi (The University of Tokyo)

PULL-OFF TEST AND SIMULATION OF DUCTILE ADHESIVE BONDED COMPOSITE T-JOINTS
Hao Cui (Delft University of Technology), Sotiris Koussios (Delft University of Technology), Yulong Li (Northwestern Polytechnical University)

OPTIMAL DESIGN OF THE EPOXY ADHESIVE JOINTS WITH CORE-SHELL STRUCTURED META-ARAMID/EPOXY NANOFIBER AT CRYOGENIC ENVIRONMENT
Hyun ju Oh (Chonbuk National University), Da hye Kim (Chonbuk National University), Hakyong Kim (Chonbuk National University), Hui yun Hwang (Andong National University), Seong su Kim (Chonbuk National University)

FRACTURE MECHANISM OF MECHANICALLY FASTENED CFRP
Kotaro Shinohara (The University of Tokyo), Jun Takahashi (The University of Tokyo), Kiyoshi Uzawa (Kanazawa Institute of Technology), Hideaki Murayama (The University of Tokyo), Isamu Ohsawa (The University of Tokyo)

AN ANALYTICAL MODEL TO IMPROVE THE EFFICIENCY OF NUMERICAL ANALYSES OF COMPOSITE BOLTED LAP JOINTS SUBJECTED TO HIGH RATES OF LOADING
Philip Anthony Sharos (University of Limerick), Conor T. Mccarthy (University of Limerick)

ON THE PROLIFERATION OF STANDARD TESTS FOR COMPOSITE BEARING STRENGTH
Adam John Sawicki (The Boeing Company)
JOINING – POSTER

NOVEL INDUCTION HEATING TECHNIQUE FOR JOINING OF CARBON FIBRE COMPOSITES
Chris M Worrall

IMPROVEMENT METHOD OF THE ADHESIVE BONDING BETWEEN THE PEI AND CFRP FOR THE ULTRACENTRIFUGE ROTOR
Soon Ho Yoon

EFFECT OF GEOMETRIC ERRORS ON THE BEHAVIOUR OF MULTI-BOLT COMPOSITE JOINTS
Christophe Bois, Julie Lecomte, Erwann Le goff, Jean-christophe Wahl, Hervé Wargnier

ADHESION AND DEGRADATION OF WELL-DESIGNED TITANIUM-PEEK INTERFACES WITHIN TITANIUM-CF/PEEK LAMINATES
Karola Schulze

ADHESIVE BONDING LAP SHEAR STRENGTH IMPROVEMENT OF CFR(PEEK) LAMINATES BY SURFACE MORPHOLOGY MODIFICATIONS
Réda el hak Ourahmoune, Michelle Salvia, Nadir Mesrati, Thomas Mathia

FRACTURE ANALYSIS OF NEEDLE PUNCHED NONWOVEN COMPOSITE WITH OPEN HOLE
Zhiyuan Zhang, Gustav Martin Wizemann, Yuqiu Yang, Hiroyuki Hamada

THE EPOXY BEHAVIOR OF CFRP ACCORDING TO CLEARANCE AND PRESSURE IN COMPRESSION MOLDING FOR U-CHANNEL
Hyun ho Kim, Minsik Lee, Chung-gil Kang

FAILURE MECHANISM OF A SINGLE-LAP HYBRID JOINT OF COMPOSITE LAMINATE SCREWED AND BONDED TO A STEEL PLATE
Songwei Wang, Xiaoquan Cheng, Zhonghai Li, Jiayi Qi, Qunfeng Cheng

NUMERICAL STUDY ON ULTRASONIC WELDING JOINT FOR CFRTP
Kazuya Suzuki, Isamu Ohsawa, Jun Takahashi, Kiyoshi Uzawa

JOINT EFFICIENCY OF MULTI-POINT SPOT ULTRASONIC WELDING FOR CFRTP
Tomoko Tomioka, Kiyoshi Uzawa, Hideaki Murayama, Isamu Ohsawa, Jun Takahashi

INTERFACE MICROSTRUCTURE OF A DOUBLE-POURED AL/AL-5CU BIMETALLIC COMPOSITE
Guo Wu, Marina Galano, Keyna O’reilly
JOINT STRENGTH OF CO-CURED COMPOSITE STRUCTURES USING Z-PINNING PATCH

I. Choi, J. Jeong, S. Cheong
LCM - CHARACTERIZATION

CHEMICAL SHRINKAGE AND THERMOMECHANICAL CHARACTERIZATION OF DIFFERENT RESIN SYSTEMS AND PREPREGS DURING CURE BY A NOVEL IN SITU MEASUREMENT METHOD
Catherine Billotte (Ecole Polytechnique de Montreal), Edu Ruiz (Ecole Polytechnique), Clémentine Fellah (Ecole Polytechnique de Montreal)

EFFECT OF NANOGRAFITE ON THERMAL PROPERTIES OF LIQUID MOLED POLYAMIDE-6 LAMINATES
Peter W. Barfknecht (University of Alabama - Birmingham), Selvum Brian Pillay (University of Alabama - Birmingham), Uday K Vaidya (University of Alabama - Birmingham)

RTM OPTIMAL INJECTION VELOCITY DETERMINATION BY CAPILLARY RISE MEASUREMENTS USING INFRARED THERMOGRAPHY
Christophe Ravey (Ecole Polytechnique de Montreal), Edu Ruiz (Ecole Polytechnique), François Trochu (Ecole Polytechnique de Montreal)

NUMERIC MODELING OF THE FIBROUS MATERIAL WEAVING PROCESS FOR COMPOSITE MATERIAL
Charlotte Florimond (INSA), Emmanuelle Vidal-sallé (Institut National des Sciences Appliquees de Lyon), Philippe Boisse (Institut National des Sciences Appliquees de Lyon), Jérôme Vîlfayeau (ENSAIT)

MODELLING DUAL-SCALE FLOW-DEFORMATION PROCESSES IN COMPOSITES MANUFACTURING
Mohammad Sadegh Rouhi (Chalmers University of Technology), Maciej Wysocki (Swerea SICOMP), Ragnar Larsson (Chalmers University of Technology)

CARBON FIBER'S SURFACE CHEMISTRY AND SELF-ASSEMBLED INTERPHASE FORMATION IN FIBER REINFORCED POLYMER COMPOSITES
Felix N Nguyen, Al Haro (Toray Composites (America)), Kenichi Yoshioka, Daigo Kobayashi, Yoshifumi Nakayama, Tomoko Ichikawa (Toray Industries Inc.), Eric Aston (University of Idaho)
LCM - PERMEABILITY

EFFECT OF SPECIMEN HISTORY ON MEASURED IN-PLANE PERMEABILITY OF FABRICS
Andreas Endruweit (University of Nottingham), Xuesen Zeng (University of Nottingham), Andrew C Long (University of Nottingham)

INFLUENCE OF THE SHEARING OF TEXTILES ON THE IN-PLANE PERMEABILITY
Matthias Arnold (Institut fuer Verbundwerkstoffe GmbH), Massimo Cojutti (Audi AG), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

OPTICAL PERMEABILITY MEASUREMENTS OF NCF: INFLUENCE OF MATERIAL PROPERTIES ON THE 2D PREFORM PERMEABILITY
Ralf Schledjewski (Montanuniversitat Leoben), Harald Grössing (Montanuniversitat Leoben)

DETECTION OF PERMEABILITY VARIATIONS IN FOR EARLY QUALITY ASSESSMENT IN LIQUID COMPOSITE MOLDING
Claudio Di Fratta, Luigi Di lillo, Florian Klunker, Paolo Ermanni (Swiss Federal Institute of Technology, Zurich)
LCM - PROCESSING

A STUDY OF CONSOLIDATION EQUILIBRIUM IN COMPOSITE PARTS MADE BY FLEXIBLE INJECTION
Joffrey Renaud (Ecole Polytechnique de Montreal), Philippe Causse (Ecole Polytechnique de Montreal), Edu Ruiz (Ecole Polytechnique), François Trochu (Ecole Polytechnique de Montreal)

HIGH-PRESSURE RTM PROCESS VARIANTS FOR MANUFACTURING OF CARBON FIBER REINFORCED COMPOSITES
Raman Chaudhari (Fraunhofer Institute for Chemical Technology (ICT)), Michael Karcher (Fraunhofer Institute for Chemical Technology (ICT)), Peter Elsner (Fraunhofer Institute for Chemical Technology (ICT)), Frank Henning (Fraunhofer Institute for Chemical Technology (ICT))

INVESTIGATION OF INFLUENCING PARAMETERS WITH RESPECT TO FILLING TIME IN VIBRATION ASSISTED RTM PROCESSES
Reinhold Meier (Technische Universitat Munchen), Julian Heim (Technische Universitat Munchen), Swen Zaremba (Technische Universitat Munchen), Klaus Drechsler (Technische Universitat Munchen)

INVESTIGATION OF CNT FILTERING ACCORDING TO IN-PLANE AND OUT-OF-PLANE LCM INJECTION STRATEGIES
Timo Grieser (Institut fuer Verbundwerkstoffe GmbH), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

PREFORM COMPACTION AND DEFORMATION DURING THROUGH-THE-THICKNESS IMPREGNATION
David Becker (Institut fuer Verbundwerkstoffe GmbH), Markus Brzeski (Institut fuer Verbundwerkstoffe GmbH), Dominik Linster (Request Pending), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

PREFORM INFLUENCE ON MECHANICAL BEHAVIOR OF STIFFENED PANELS MANUFACTURED BY LIQUID RESIN INFUSION
Thomas Bonnemains (Universite de Bretagne Occidentale), Eric Lolive (Universite de Bretagne Occidentale), Franck Le poulain (Universite de Bretagne Occidentale)
LCM - PROCESS MODELING

MODELING OF NON-ISOTHERMAL LIQUID COMPOSITE MOLDING: THE HEAT DISPERSION ISSUE
Pavel Simacek (University of Delaware), Suresh G Advani (University of Delaware)

PROCESS INDUCED DEFORMATION OF AIRCRAFT STRUCTURAL COMPONENTS
Paul A Trudeau (Bombardier), Hasan Salek (Bombardier), Marc-andre Jette (Bombardier), Pascal Hubert (McGill University), Cristian Demaria (McGill University), Genevieve Palardy (McGill University)

PROCESSING WARPAGE OF ASYMMETRIC COMPOSITE PANELS MANUFACTURED BY RESIN TRANSFER MOLDING
Philippe Causse (Ecole Polytechnique de Montreal), Edu Ruiz (Ecole Polytechnique), Francois Trochu (Ecole Polytechnique de Montreal)

MULTI-OBJECTIVE INFUSION OPTIMIZATION IN VACUUM ASSISTED RESIN TRANSFER MOULDING (VARTM) USING GENETIC ALGORITHMS
Giacomo Struzziero (Cranfield University), Alex Skordos (Cranfield University)

INDUSTRIAL SIMULATION OF LIQUID RESIN INFUSION BY THE FINITE ELEMENT METHOD
Arnaud Dereims (Ecole Nationale Superieure des Mines de St-Etienne), Sylvain Drapier (Ecole Nationale Superieure des Mines de St-Etienne), Jean-michel Bergheau (Ecole Nationale d'Ingenieurs de Saint-Etienne), Patrick De Luca

MONITORING AND SIMULATION OF THE VACUUM INFUSION PROCESS
Alper Aktas (University of Southampton), Stephen Boyd (University of Southampton), Ajit Shenoi (University of Southampton)

PERMEABILITY ANALYTICAL MODELING OF 3D INTERLOCK FABRICS
Nicolas Vernet (Ecole Polytechnique de Montreal), Francois Trochu (Ecole Polytechnique de Montreal)

A SIMULATION-BASED METHOD OF PERMEABILITY PREDICTION FOR RTM PROCESS SIMULATION
Christoph Hahn (Technische Universitat Munchen), Christophe Binetrui (Ecole Centrale de Nantes), Roland Hinterhoelzl (Technische Universitat Munchen)

A STUDY OF THE QUALITY OF COMPLEX PARTS MADE USING THE MOULDLESS VARTM METHOD
Chris Larose Polowick (Carleton University)
LCM – SATURATION

MODELING OF IN-PLANE VOID TRANSPORT DURING COMPOSITES PROCESSING
John Joseph Gangloff jr. (University of Delaware), Claire Daniel (Institut superieur de mecanique de Paris - SUPMECA), Suresh G Advani (University of Delaware)

EXPERIMENTAL STUDY ON THE IDENTIFICATION OF SATURATION OF A POROUS MEDIA THROUGH THERMAL ANALYSIS
Maxime Villiere (U. de Nantes), Sébastien Gueroult, Joël Bréard (U. du Havre), Vincent Sobotka, Nicolas Boyard, Didier Delaunay (Centre Nat. de la recherche scientifique CNRS)

VOID MINIMIZATION AND OPTIMIZATION OF INJECTION VELOCITY IN RTM PROCESSING
Christophe Ravey, François Lebel, Edu Ruiz, Hubert Courteau-godmaire, François Trochu (Ecole Polytechnique de Montreal)

A MICROMECHANICS BASED MODEL OF RESIN FLOW IN FABRIC WITH CROSS-FLOW AND OVER-FLOW EFFECTS
D. Roy mahapatra
LIFE CYCLE ANALYSIS & RELIABILITY

REDUCING USE OF STYRENE MONOMERS IN UNSATURATED POLYESTER RESINS
Christopher Hansen (University of Massachusetts at Lowell), Richard A Poillucci (University of Massachusetts at Lowell)

QUANTIFICATION OF SOURCES OF VARIABILITY IN CRFP PLATES CURED IN AUTOCLAVE
Yves Angel Davila (Institut Clément Ader), Laurent Crouzeix (Institut Clément Ader), Bernard Douchin (Institut Clément Ader), Francis Collombet (Institut Clément Ader), Yves-henri Grunevald

SHADES OF GREEN: PRELIMINARY LCA OF BIOBASED POLYMER RESINS FOR COMPOSITE MATERIALS
Jonathon Chard (University of Surrey), Lauren Basson (University of Surrey), Gavin Creech (Scott Bader Company Ltd), David Jesson (University of Surrey), Paul A Smith (University of Surrey)
MECHANICAL BEHAVIOR

INVESTIGATION ABOUT FRACTURE MODE AND STRENGTH IN CURVED SECTION OF CARBON FIBER REINFORCED POLYPROPYLENE
Yi Wan (The University of Tokyo), Takeshi Goto (The University of Tokyo), Tsuyoshi Matsuo (The University of Tokyo), Jun Takahashi (The University of Tokyo), Isamu Ohsawa (The University of Tokyo)

ELASTIC MODULUS ESTIMATION OF CHOPPED CARBON FIBER TAPE REINFORCED THERMOPLASTICS USING THE MONTE CARLO SIMULATION
Yu Sato (The University of Tokyo), Jun Takahashi (The University of Tokyo), Tsuyoshi Matsuo (The University of Tokyo), Isamu Ohsawa (The University of Tokyo), Kohei Kiriyama (), Satoshi Nagoh (Toyobo Co., Ltd.)

CONTROLLED IMPACT TESTING OF CARBON FIBRE COMPOSITES WITH AND WITHOUT CARBON NANOTUBES AND/OR SMA WIRES
Katerina Sofocleous (University of Cyprus), Vassilis Drakonakis (University of Cyprus), Stephen L Ogin (University of Surrey), Haris Doumanidis (University of Cyprus)

EFFECT OF FIBER LENGTH, TYPE, AND VOLUME FRACTION ON FLEXURAL STRENGTH OF DISCONTINUOUS CARBON/CARBON COMPOSITES
Daniel Heim, Alexander Matschinski, Thomas Kandler, Swen Zaremba, Klaus Drechsler (Technische Universität Munchen), Christian Klotz (SGL CARBON GmbH)
MECHANICAL PROPERTIES

INTERFACE-CORRELATED BONDING PROPERTIES OF A ROLL BONDED AL-CU SHEET
Kwang seok Lee (Korea Institute of Materials Science), Yong-nam Kwon (Korea Institute of Materials Science)

CRUSH RESPONSE OF 2D AND 3D HYBRID WOVEN COMPOSITES
Mark Pankow (North Carolina State University), Anthony M Waas (University of Michigan - Ann Arbor), Chian-fong Yen

THE HIVOCOMP PROJECT: CARBON FIBRE/PA12 HYBRID SINGLE POLYMER COMPOSITES
Peter Hine (University of Leeds), Yentl Swolfs (Katholieke Universiteit Leuven), Ian Ward (University of Leeds), Ignaas Verpoest (Katholieke Universiteit Leuven), Mark Bonner (University of Leeds), Maximilian Mitwalsky (Technische Universität Munchen)

STUDY OF NOTCH-SENSITIVITY OF CARBON-GLASS INTRAPLY LAMINATES FOR AEROSPACE APPLICATIONS
Don Lee (Toray Composites (America)), Jeffrey Satterwhite (Toray Composites (America))

GRAPHENE BASED POLY(VINYL ALCOHOL) NANOCOMPOSITES: EFFECT OF HUMIDITY CONTENT
Alessandro Pegoretti (University of Trento)

EFFECTS OF THE CURE PRESSURE ON INTERLAMINAR SHEAR STRENGTH OF CFRP/STEEL HYBRID LAMINATE CURED BY HOT PRESSING FOR A SHORT TIME
Wen-xue Wang (Kyushu University), Terutake Matsubara (Kyushu University), Yoshihiro Takao (Kumamoto Institute of Technology), Kenzo Yasuda (NHK SPRING Co. LTD.), Ryousuke Hayashi

MECHANICAL CHARACTERISTIC AND STRENGTH PREDICTION OF FILLED HOLE COMPOSITE LAMINATE UNDER COMPRESSION LOADING
Xiao Jing Zhang (Shanghai Jiaotong University), Zhuyu Jin (Shanghai Jiao Tong University), Cheng Chen (Shanghai Jiao Tong University), Hai Wang (Shanghai Jiao Tong University)

THE EFFECT OF GAS TEXTURING TECHNOLOGY ON THE TENSILE BEHAVIOUR OF UNIDIRECTIONAL (UD) CARBON FIBRE (CF) REINFORCED POLYAMIDE-12(PA-12) COMPOSITE
Hele Diao (Imperial College of Science), Paul Robinson (Imperial College of Science), Michael R Wisnom (University of Bristol), Alexander Bismarck (Imperial College of Science)

MECHANICAL BEHAVIOR OF THIN TITANIUM FILMS / CFRP HYBRID LAMINATES CONTAINING TRANSITION REGION
Yuhei Nekoshima (Tokyo University of Science), Daiki Mitsumune (Tokyo University of Science), Hayato Nakatani (Osaka City University), Shinji Ogihara (Tokyo University of Science)
IMPROVED COMPRESSION STRENGTH OF CARBON/GLASS/EPOXY HYBRID COMPOSITES
Christen Malte Markussen (Technical University of Denmark)

A NEW REGULARIZED VIRTUAL FIELDS METHOD FOR COMPOSITE MATERIAL PARAMETERS IDENTIFICATION
Behzad Rahmani (Ecole Polytechnique de Montreal), Martin Lévesque (Ecole Polytechnique de Montreal), Isabelle Villemure (Ecole Polytechnique de Montreal)

A STUDY ON THE DEVELOPMENT OF PREDICTION EQUATION OF PIEZOELECTRIC CHARACTERISTICS FOR GLASS FIBER EPOXY COMPOSITES
Huiyun Hwang (Andong National University)

THERMAL CONDUCTIVITY OF CARBON FIBER FABRICS
Yue Yang (University of Ottawa), Francois Robitaille (University of Ottawa), Simon James Hind (National Research Council Canada)

STIFFNESS EVALUATION OF THE COMPOSITE LAMINATES WITH WAVY PLIES AND THEIR STABILITY ANALYSIS
Hamid Dalir (Bombardier), Jean-Evrard Brunel (Bombardier), Franck Dervault (Borland Software Corporation), Alain Landry

MODELING 4-POINT BENDING OF THIN CARBON-EPOXY LAMINATES
David Thibaudeau (Royal Military College of Canada), Diane Wowk (Royal Military College of Canada), Catharine Marsden (Royal Military College of Canada)

TIME-TEMPERATURE BEHAVIOUR OF POLYIMIDE MATRIX
Thibaut Crochon (Ecole Polytechnique de Montreal), Martin Lévesque (Ecole Polytechnique de Montreal), Chun Li (National Research Council Canada), Simon Dulong (Ecole Polytechnique de Montreal)

PBO FABRIC REINFORCED THERMOPLASTIC COMPOSITE MANUFACTURED BY SOLUTION IMPRGNATION METHOD
Anchang Xu (Shinshu University)

TENSILE AND COMPRESSION PROPERTIES OF HYBRID COMPOSITES – A COMPARATIVE STUDY
Durai Prabhakaran Raghavulu Thirumalai (Technical University of Denmark)

RANDOM DISTURBING MODEL FOR THERMAL EXPANSION PROPERTY PREDICTION OF UNIDIRECTIONAL COMPOSITE
Zhiguo Ran (Beihang University), Ying Yan (Beijing University of Aeronautics and Astronautics), Lei Yang (Beihang University)
MECHANICAL PROPERTIES – POSTER

4-POINT BENDING FATIGUE TESTING OF THIN CARBON-EPOXY LAMINATES
Catharine Marsden, Chun Li, Mark Biernacki, Scott Joseph Carnegie

STUDY ON COMPRESSION EXPERIMENT OF SINGLE CARBON FILAMENT
Tong Lili, Zhou Peiming

PLAIN WEAVE REINFORCEMENT IN C/C COMPOSITES VISUALISED IN 3D FOR ELASTIC PARAMETERS
Pavla Tesinova

INSULATING LAYERED COMPOSITE MATERIALS MANUFACTURING AND THERMAL DIFFUSIVITY MEASUREMENTS
Adam Dominiak, Roman Domarski

STRENGTH ESTIMATION FOR FORMED PARTS OF CARBON FIBER REINFORCED THERMOPLASTIC COMPOSITE BY ACCOUNTING FOR FORMING PROCESS EFFECTS
Takushi Miyake, Masako Seki

RULE OF MIXTURE FOR COMPOSITE THERMOELECTRICS
Yun Lu, Katsuhiro Sagara, Liang Hao, Hiroyuki Yashida, Zi Wu Ji, Fusheng Pan

OPTIMIZATION AND EXPERIMENT OF COMPOSITE SQUARE BEAM
Mingsen Yi

STATISTICAL ANALYSIS OF SINGLE PPTA FIBERS
Nathanael Alan Heckert, Jae hyun Kim, Gale A Holmes, Walter Mcdonough, Kirk Rice
MICROMECHANICAL MODELING SYMPOSIUM

DESIGN OF THE THERMAL TRANSPORT IN FIBER REINFORCED COMPOSITES
Vinit Deshpande (Karlsruhe Institute of Technology), Romana Piat (Karlsruhe Institute of Technology), Yuriy Sinchuk (Karlsruhe Institute of Technology), Galyna Stasiuk (Karlsruhe Institute of Technology), Puneet Mahajan (Indian Institute of Technology, Delhi)

HOMOGENIZATION OF ELASTIC PROPERTIES OF SHORT FIBER REINFORCED COMPOSITES BASED ON MICRO COMPUTER TOMOGRAPHY DATA
Viktor Müller, Barthel Brylka, Thomas Böhlke (Karlsruhe Institute of Technology), Felix Dillenberger, Robert Glöckner (Fraunhofer Institute for Structural Durability and System Reliability LBF), Stefan Kolling (Technische Hochschule Mittelhessen)

MODELLING EDGE EFFECTS ON COMPRESSIVE STRENGTH OF FIBRE COMPOSITES
Michael Sutcliffe (University of Cambridge)

HOMOGENIZATION AND SENSITIVITY ANALYSIS FOR THERMOELASTIC OPTIMAL DESIGN OF METAL-CERAMIC COMPOSITES
Yuriy Sinchuk (Karlsruhe Institute of Technology), Romana Piat (Karlsruhe Institute of Technology)

HOMOGENIZATION MODELS FOR POLYMER-CLAY NANOCOMPOSITES: ONE AND TWO-STEP APPROACHES
Maryam Pahlavanpour (Ecole Polytechnique), Pascal Hubert (McGill University), Martin Lévesque (Ecole Polytechnique de Montreal)

SIMULATION OF FABRIC DEFORMATION UNDER MOLDING PROCESS
Lejian Huang (Kansas State University), Youqi Wang (Kansas State University), Yuyang Miao (Kansas State University), Chian-fong Yen (Albany Engineered Composites), Jon Goering (Albany Engineered Composites)

A VIRTUAL TEST-BED FOR THE PREDICTION OF HOLISTIC ELASTIC PROPERTIES OF UNIDIRECTIONAL COMPOSITES
Ambrose Ighofovwe Akpoyomare (University of Greenwich), Michael Ihemelandu Okereke (University of Greenwich)

NUMERICAL SIMULATION OF DYNAMIC YARN PULL-OUT PROCESS
Habiburrahman Ahmadi (Kansas State University), Youqi Wang (Kansas State University), Yuyang Miao (Kansas State University), Xiaojian Jack Xin (Kansas State University), Chian-fong Yen (US Army Research Laboratory)

MULTI-SCALE MODELING OF THE VISCOELASTIC PROPERTIES OF NON-WOVEN, THERMOPLASTIC COMPOSITES
Sascha Fliegener, Michael Luke (Fraunhofer Institute for Mechanics of Materials IWM), Diego Elmer, Thomas Seifert (Fachhochschule Offenburg, Hochschule für Technik und Wirtschaft)

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STREAMLINED COMPOSITE MODELING WORKFLOWS WITH MULTI-OBJECTIVE OPTIMISATION
Gerhard Goldbeck (Goldbeck Consulting Ltd), Danilo Di Stefano (ESTECO spa)

STOCHASTIC APPROACH TO MICROMECHANICAL MODELING OF POROUS SOLIDS
Borys Drach (University of New Hampshire), Andrew Drach (University of New Hampshire), Igor Tsukrov (University of New Hampshire)

MODELING OF ELASTIC PROPERTIES OF THE CELL WALL MATERIAL IN NANOCLAY-REINFORCED FOAMS
Oksana Shishkina (Katholieke Universiteit Leuven), Larissa Gorbatikh (Katholieke Universiteit Leuven), Stepan V. Lomov (Katholieke Universiteit Leuven), Ignaas Verpoest (Katholieke Universiteit Leuven)
MICROSTRUCTURES

PREDICTION OF FIBRE ORIENTATION IN SHORT GLASS FIBRE REINFORCED COMPOSITE INJECTION MOULDING
Fin Caton-rose (University of Bradford), Peter Hine (University of Leeds), Bushra Parveen (University of Bradford)

GENERATION, MODELLING AND VALIDATION OF STATISTICALLY EQUIVALENT MICROSTRUCTURES
Frank Gommer (University of Nottingham), Andreas Endruweit (University of Nottingham), Andrew C Long (University of Nottingham)

3D FULL-FIELD DISPLACEMENTS/STRAINS MEASUREMENTS IN COMPOSITES AT MICRO-SCALE
Farhad Mortazavi (Ecole Polytechnique de Montreal), Elias Ghossein (Ecole Polytechnique de Montreal), Martin Lévesque (Ecole Polytechnique de Montreal), Isabelle Villemure (Ecole Polytechnique de Montreal)

MULTIAXIALY LOADED SHORT FIBRE POLYAMIDE: A CONTRIBUTION TO NON-DESTRUCTIVE EVALUATION OF MICRO CRACKING AND DAMAGE EVOLUTION
METAL MATRIX COMPOSITES

MICROSTRUCTURAL EVOLUTION OF METAL MATRIX COMPOSITES BY IN SITU HIGH ENERGY X-RAY DIFFRACTION
Guillaume Geandier, Matthieu Salib, Mickael Mourot, Lilian Vautrot, Moukrane Dehmas, Benoit Denand, Sabine Denis (Institut Jean Lamour - Universite de Lorraine), Elisabeth Aeby-gautier (Centre National de la recherche scientifique CNRS),

PART II: PHOSPHORYLATED SOL-GEL FLAME RETARDANT COATING FOR POLYESTER FABRIC
Ahmed Abdeen Younis (National Institute for Standards)

PRODUCTION OF BULK COST-EFFECTIVE MAGNESIUM MATRIX COMPOSITES
Xiaojun Wang, Z Li, Kun Wu, Chengdong Li, Mingjie Shen, Weiqing Liu, Chao Ding (Harbin Institute of Technology)

IN SITU SEM MICROBENDING TESTS OF ALUMINIUM ALLOYS AND ALUMINIUM MATRIX COMPOSITES
Pilar Rodrigo (Universidad Rey Juan Carlos), Belén Torres (Universidad Rey Juan Carlos), Lustolde Martínez Laorden (Universidad Rey Juan Carlos), Joaquin Rams (Universidad Rey Juan Carlos)

MICROSTRUCTURE AND MECHANICAL BEHAVIOR OF 6061 AL ALLOY REINFORCED WITH SICP NANOPARTICLES PROCESSED BY EXTRUSION AND COLD ROLLING
Xia Jiang (University of Oxford), Alexander Knowles (University of Oxford), Marina Galano (University of Oxford), Fernando Audebert (University of Buenos Aires)

MICROSTRUCTURE AND PROPERTIES OF TIB2–TIAL COMPOSITES SHEETS PREPARED BY FOIL METALLURGY
Xiping Cui (Harbin Institute of Technology)

IN-SITU SYNTHESIZED MAGNESIUM MATRIX COMPOSITES
Tongxiang Fan (Shanghai Jiao Tong University)

CARBON NANOTUBE (CNT)-ALUMINUM: TOWARDS CNT-REINFORCED ALUMINUM CONDUCTOR CABLES
Orson Bourne, Jingwen Guan, Michael Jakubinek, Shuqiong Lin, Ryan Macneil, Benoit Simard (National Research Council Canada), Ainul Akhtar (University of British Columbia), Frank Ko (University of British Columbia), Jason Lo, Ruby Zhang (CANMET, Natural Resources Canada)

CHALLENGES OF APPLYING COMPOSITE MATERIALS TO THE NEXT GENERATION OF AEROENGINES
Keynote: Dale Richard Carlson (GE)
FABRICATION OF AL-TIB2-B4C COMPOSITES BY QUICK SPONTANEOUS INFILTRATION PROCESS
Jung-moo Lee (Korea Institute of Materials Science), Jingjing Zhang (Shandong University), Young-hee Cho (Korea Institute of Materials Science), Su-hyeon Kim (Korea Institute of Materials Science), Huashun Yu (Shandong University)

HIGH TEMPERATURE TENSILE PROPERTIES OF IN SITU TIBW/TI60 COMPOSITES WITH NOVEL NETWORK MICROSTRUCTURE
Lujun Huang (Harbin Institute of Technology), Xudong Rong (Harbin Institute of Technology), Lin Geng (Harbin Institute of Technology), Fuyao Yang (Harbin Institute of Technology)

A CFD-MODEL FOR PREDICTION OF UNINTENDED POROSITIES IN METAL MATRIX COMPOSITES
Shizhao Li (Technical University of Denmark), Jon Spangenberg (Technical University of Denmark), Jesper Henri Hattel (Technical University of Denmark)

ENHANCEMENT OF MECHANICAL PROPERTIES OF CAST NANO CABONS REINFORCED A356 ALUMINIUM MATRIX COMPOSITES
Sang bok Lee (Korea Institute of Materials Science)

MICROSTRUCTURE AND WEAR RESISTANCE IN HYBRID ALUMINIUM COMPOSITES WITH SiC WHISKER AND CARBON NANOTUBES
Xuexi Zhang (Harbin Institute of Technology), Aibin Li (Harbin Institute of Technology), Lin Geng (Harbin Institute of Technology)

KINETICS OF PHASE TRANSFORMATION IN Ti-TIB COMPOSITES CHARACTERISED USING HIGH ENERGY X-RAY DIFFRACTION
Ludovic Ropars (EADS France), Moukrane Dehmas (Institut Jean Lamour - Universite de Lorraine), Sophie Gourdet (EADS France), David Tricker (Materion AMC), Elisabeth Aeby-gautier (Centre National de la recherche scientifique CNRS)

PREPARATIONS AND EVALUATION OF ELECTRICAL CONDUCTIVITY FOR TIB2/AL COMPOSITES BY SPARK SINTERING PROCESS
Gen Sasaki (Hiroshima University)

MICROSTRUCTURE, MECHANICAL AND TRIBOLOGICAL PROPERTIES OF AUSTENITIC STAINLESS STEEL COMPOSITES REINFORCED WITH TIB2 PARTICLES
Iwona Sulima (Pedagogical University of Krakow)

TITANUM ENHANCED SINTERING THROUGH LIQUID PHASE SINTERING
Evan Schumann (ICMCB), Mélanie Majimel (ICMCB), Jean-louis Bobet (ICMCB), Jean-françois Silvain (ICMCB)
INFLUENCE OF DEFORMATION DEGREE ON THE MICROSTRUCTURE OF TITANIUM MATRIX COMPOSITES
Weijie Lu (Shanghai Jiao Tong University), Xianglong Guo (Shanghai Jiaotong University)

NACRE-INSPIRED, STRONG AND DUCTILE CNT/AL COMPOSITES FABRICATED BY FLAKE POWDER METALLURGY
Zhiqiang Li (Shanghai Jiao Tong University), Genlian Fan (Shanghai Jiaotong University), Lin Jiang (Shanghai Jiaotong University), Yishi Su (Shanghai Jiao Tong University), Di Zhang (Shanghai Jiao Tong University)

TURNING MACHINABILITY OF FIBER REINFORCED ALUMINUM ALLOY COMPOSITES
Kazunori Asano (Kinki University), Kenji Higashi (KUBOTA Corporation), Hiroyuki Yoneda (Kinki University)

STRENGTHENING OF POWDERMETALLURGICALLY PRODUCED ALUMINUM BY NANOSCALE PARTICLES
Alla Kasakewitsch (Technische Universität Clausthal)

TITANIUM NANO COMPOSITES USING HYDROGENATED METHOD
M. Bardet (Université Bordeaux), A. Veillere (Université Bordeaux), J.L. Bobet (Université Bordeaux), J.M. Heintz (Université Bordeaux), K. Xia (University of Melbourne), J.F. Silvain (Université Bordeaux)
MODELING - POSTER

A NEW DYNAMIC REANALYSIS METHOD FOR THE COMPOSITE STRUCTURES
Xu Zhong Hai

ON THE NUMERICAL MODELLING OF THE BEHAVIOUR OF MECHANICALLY JOINTED TIMBER BASED COMPOSITE CONNECTIONS
Hacene Ait-aider, Marc Oudjene, El mahdi Meghlat

ELASTIC ANALYSIS OF CIRCULAR SANDWICH PLATES WITH FGM FACE-SHEETS
Roberta Sburlati, Seyed Rasoul Atashipour

FROM MICROSTRUCTURE CHARACTERIZATION TO MULTI-SCALE MODELLING OF INJECTED CARBON FIBRE REINFORCED PEEK
Jeremy Crevel, Florentin Berthet, Marie-laetitia Pastor, Frederic Lachaud

AN AUTOMATED UNIT-CELL MODELLING TOOL UNITCELLS ON ABAQUS PLATFORM DRAWING FUNCTIONALITIES FROM MULTIPLE EXTERNAL CODES
Tian-hong Yu, Qing Panhuguang Li

THEORETICAL AND NUMERICAL ANALYSIS OF STRESS DISTRIBUTION IN CFRP ROD BOND ANCHORAGE
Pan Zhang, Peng Feng

VARIABLE STIFFNESS FLEXIBLE MATRIX LAMINATES WITH PRESCRIBED FINITE ELASTIC DEFORMATION
Carlos Santos Sousa, Pedro P. Camanho, Afzal Suleman, Francisco Manuel Pires

LINKING PROCESS MODELLING WITH STRUCTURAL ANALYSIS OF COMPOSITE LAMINATED PLATES USING LAYERWISE THEORY
Hamidreza Bakhtiarizadeh, Abdul rahim Ahamed Arafath, Reza Vaziri

C0-TYPE EFFICIENT HIGHER-ORDER PLATE THEORY FOR THE THERMO-MECHANICAL ANALYSIS OF LAMINATED COMPOSITE PLATES
Jangwoo Han, Jun-sik Kim, Maenghyo Cho

QUANTIFYING THE SHEAR COUPLING EFFECT IN FOUR-POINT BENDING TESTS OF ANGLE PLY LAMINATES
Diane Wowk, Catharine Marsden, David Thibaudeau

NUMERICAL SIMULATION OF COMPOSITE STRUCTURE REPAIRED BY EXTERNAL BONDED PATCHES UNDER TENSILE LOADING USING COHESIVE ELEMENTS
Lingling Peng, Xiaojing Gong, Zheng Li, Laurent Guillaumat
BUCKLING AND POST-BUCKLING BEHAVIOUR OF TOP-HAT CROSS-SECTION COMPOSITE BEAMS WITH VARIOUS SEQUENCES OF PLIES
Hubert Debski

REALIZING DOMAIN SUPERPOSITION MODEL IN NASTRAN FOR PREDICTING THE MECHANICAL PROPERTIES OF TEXTILE COMPOSITE
Xiuhua Chen, Yan Deng, Ming Li, Hai Wang

A NEW 3D FINITE ELEMENT MODEL FOR THE MECHANICAL ANALYSIS OF RANDOM FIBER COMPOSITE
Zixing Lu, Zeshuai Yuan, Qiang Liu

ANALYSIS OF THE CRITICAL MOMENT TRIGGERING OFF SNAP-THROUGH OF BISTABLE COMPOSITE WITH INITIAL CURVATURE
Jong-gu Lee, Junghyun Ryu, Seung-won Kim, Kyu-jin Cho, Maenghyo Cho

ADHESION EVALUATION IN CARBON FIBER AND CONCRETE MATRIX COMPOSITES
Gerson Marinucci, Reinaldo Leonel Caratin

MULTISCALE DAMAGE MODELING FOR HIGHLY-FILLED PARTICULATE COMPOSITES: PARTICLE SIZE EFFECT AND COUPLING WITH FINITE STRAINS
Marion Trombini, Carole Nadot-martin, Damien Halm, Gérald Contesse, Alain Fanget

TRANSVERSE MECHANICS OF UNIDIRECTIONAL TEXTILE FIBROUS MATERIALS
William Caster, Christiane Wagner-kocher, Stéphane Fontaine, Artan Sinoimeri, Guillaume Perie

ENHANCED FILAMENT WINDING SIMULATION FOR IMPROVED STRUCTURAL ANALYSIS OF COMPOSITE PRESSURE VESSELS
Jörg Bernhard Multhoff

MICRO-MACRO APPROACH FOR PREDICTING LOCALIZED STRESS DISTRIBUTION IN COMPOSITES
Saurabh Gupta, Ganesh Soni, Ramesh Kumar Singh

STATISTICAL ANALYSIS AND MECHANICAL BEHAVIOR FOR POLYPROPYLENE COMPOSITES REINFORCED WITH BENZOYLATED SUGARCANE FIBERS
Rosineide Miranda Leão

LONG TERM DURABILITY OF UNIDIRECTIONAL CFRP USING TOUGHENED MATRIX RESIN
Shunnosuke Ohta, Masayuki Nakada, Yasushi Miyano, Takayuki Matsumoto

PREDICTION OF OPEN HOLE COMPRESSIVE FAILURE FOR QUASI-ISOTROPIC CFRP LAMINATES BY MMF/ATM METHOD
Tatsuya Hioki, Masayuki Nakada, Yasushi Miyano, Hisaya Katoh
NUMERICAL STUDY OF COMPACTION INFLUENCE ON SPRING-IN OF THIN COMPOSITE COMPONENTS MANUFACTURED BY VACUUM BAG PROCESS
Costanze Bellini, Luca Sorrentino

USE SANDWICH COMPOSITES TO MAKE PASSENGER CAR COMPONENTS FOR RAIL TRAIN APPLICATION
Wenguang Ma

ANALYSIS OF BI-STABILITY AND RESIDUAL STRESS RELAXATION IN HYBRID UNSYMMETRIC LAMINATES
Fuhong Dai

MODELING OF THE THERMO-MECHANICAL PROPERTIES OF WOVEN COMPOSITES DURING THE CURE
Loleï Khoun, Pascal Hubert, Krishna S Challagulla
MODELLING AND SIMULATION

INDUSTRIAL APPLICATION OF FIBRE ORIENTATION PREDICTIONS
Dave Brands (SABIC), Claire Martin (SABIC), Warden Schijve

PROPERTY CALCULATION SYSTEM FOR INJECTION AND COMPRESSION MOLDING OF FIBER-FILLED POLYMER COMPOSITES
Xiaoshi S Jin (Autodesk, Inc.), Jin Wang (Autodesk, Inc.), Sejin Han (Autodesk, Inc.)

REFINED MODELS ON THE WRINKLING OF SANDWICH PANELS UNDER BIAXIAL LOADING
Hsin-piao Chen (California State University, Long Beach), Hsun Chen (California State University, Long Beach)

MULTI-DISCIPLINARY DESIGN OPTIMIZATION OF SANDWICH CONSTRUCTIONS
Liliane Gilberte Ngahane Nana, Jörg Feldhusen, Stephanie Dallmeier, Benedikt Günther, Thomas Fieder (Rheinisch Westfälische Technische Hochschule Aachen)

FINITE ELEMENT MODELING OF BALLISTIC IMPACT ON MULTI-LAYER WOVEN FABRICS
Deju Zhu (Hunan University), Barzin Mobasher (Arizona State University), S.d. Rajan (Arizona State University)

NUMERICAL MODELLING OF PERFORATION RESISTANCE OF FOAM-BASED SANDWICH PANELS
Jin Zhou (University of Liverpool), Wesley James Cantwell (Khalifa University of Science Technology and Research), Zhongwei Guan (University of Liverpool)

MODELING WING LEADING EDGE MADE WITH SLM LATTICE CORE AND CFRP SKIN
Matthew Smith, Zhongwei Guan (University of Liverpool), Wesley J Cantwell, Bob Mines (University of Liverpool)

REALIZING WISHFUL DREAM --TO PREDICT LAMINATE ULTIMATE STRENGTH UPON INDEPENDENT CONSTITUENT PROPERTIES ONLY
Zheng-ming Huang (Tongji University), Ling Liu (Tongji University)

EXPERIMENTAL AND NUMERICAL STUDY OF THE CURE INDUCED DEFORMATIONS IN COMPOSITES PRODUCED BY VACUUM INFUSION
Antoine Parmentier (Cenaero), Benoit Wucher (Cenaero), Philippe Martiny (Cenaero)

DIRECT MEASUREMENT OF OUT-OF-PLANE AND IN-PLANE CURE SHRINKAGE STRAIN IN COMPOSITES BY EMBEDDED FIBER-OPTIC SENSORS
Shu Minakuchi (The University of Tokyo)
AN APPROACH TOWARDS A BASIC MATERIALS CHARACTERIZATION FOR THE SIMULATION OF PROCESS INDUCED DEFORMATIONS
Mathias Peter Hartmann (Technische Universitat Munchen), Matthias Strebinger (Technische Universitat Munchen), Roland Hinterhoelzl (Technische Universitat Munchen)

NUMERICAL MODELLING OF GRADED FOAM BASED SANDWICH STRUCTURES SUBJECTED TO IMPACT
Jin Zhou (University of Liverpool), Zhongwei Guan (University of Liverpool), Wesley J Cantwell

NUMERICAL EVALUATION OF PERIODIC BOUNDARY CONDITION ON THERMO-MECHANICAL PROBLEM USING HOMOGENIZATION METHOD
Muhammad Ridlo erdata Nasution (Tokyo Metropolitan University), Naoyuki Watanabe (Tokyo Metropolitan University), Atsushi Kondo (Tokyo Metropolitan University)

NUMERICAL ANALYSIS ON CURE-INDUCED DEFORMATION OF FIBROUS COMPOSITE LAMINATES
Pan Li (Shandong University), Yuxi Jia (Shandong University), Peng Qu (Shandong University), Xiaoxia Wang, Shanlong Li (Shandong University)

CURE CYCLE MONITORING OF LAMINATED CARBON FIBER-REINFORCED PLASTIC BY FIBER BRAGG GRATINGS IN MICROSTRUCTURED OPTICAL FIBER

STUDY ON NEW SURFACE PRETREATMENTS OF PAINTING TO CFRP LAMINATES
Tomoyuki Suzuki (Aichi Science and Technology Foundation), Hirohito Hira (Daido University)

THEORETICAL FAILURE ENVELOPES OF OPEN HOLE COMPOSITE LAMINATES WITH A- AND B-BASIS ALLOWABLES ESTIMATED FROM SMOOTH SPECIMEN PROPERTIES
Jeffrey Tsewei Fong, Nathanael Alan Heckert, James Filliben (National Institute of Standards and Technology (NIST)), Carlos Alberto Cimini Jr, Jose Daniel Diniz Melo (Universidade Federal do Rio Grande do Norte)

A PARTITION-OF-UNITY METHOD FOR MODELING COUPLED THERMO-MECHANICAL PROBLEMS IN FRP LAMINATES SUBJECTED TO IMPACT
Awais Ahmed (Delft University of Technology), Lambertus Johannes Sluys (Delft University of Technology)

MULTISCALE MODEL BASED ON A FINITE FRACTURE APPROACH FOR THE PREDICTION ON DAMAGE IN LAMINATE COMPOSITES

Organized by Canadian Association for Composite Structures and Materials (CACSMA)
Nicolas Carrere (École Nationale Supérieure de Techniques Avancés, Bretagne), Nicolas Tual (Ecole Nationale Superieure des Ingenieur des Etudes et Techniques d'Armement), Malick Diakhaté (Universite de Bretagne Occidentale)

THIN PLY COMPOSITES: EXPERIMENTAL CHARACTERIZATION AND MODELING
Joël Cugnoni (École polytechnique fédérale de Lausanne), Robin Amacher (École polytechnique fédérale de Lausanne), John Botsis (Ecole Polytechnique Federal de Lausanne)

AN INTEGRATED XFEM-CE APPROACH FOR MODELING MATRIX CRACKS AND DELAMINATION INTERACTIONS IN COMPOSITE LAMINATES WITH ANGLED PLIES
Xiushan Sun (National University of Singapore), Vincent Bc Tan (National University of Singapore), Tong earn Tay (National University of Singapore)

NUMERICALLY PREDICTED DAMAGE AND FAILURE ENVELOPES OF COMPOSITES FEATURING NON-LINEAR MATERIAL BEHAVIOR
Jakob Gager (Polymer Competence Center Leoben), Martin Meindlhum (FACC AG), Martin Schwab (Polymer Competence Center Leoben), Heinz E Pettermann (Vienna University of Technology)

MODEL FOR TIME-INDEPENDENT AND TIME-DEPENDENT DAMAGE EVOLUTION AND ITS INFLUENCE ON CREEP OF MULTIDIRECTIONAL POLYMER COMPOSITE LAMINATES
Amir Asadi (University of Manitoba), Raghavan Jayaraman (University of Manitoba)

A SIMPLE PLASTICITY MODEL FOR PREDICTING TRANSVERSE COMPOSITE RESPONSE AND FAILURE
Khong wui Gan (University of Bristol), Michael R Wisnom (University of Bristol), Stephen Richard Hallett (University of Bristol), Giuliano Allegri (University of Bristol)

MODELING STRUCTURAL BEHAVIOUR OF PVC FOAM SANDWICH PANELS REINFORCED BY CFRP PINS
Zhongwei Guan (University of Liverpool), Jin Zhou (University of Liverpool), Wesley J Cantwell

NUMERICAL VALIDATION OF HOMOGENIZATION MODELS FOR THE CASE OF ELLIPSOIDAL PARTICLES REINFORCED COMPOSITES
Elias Ghossein (Ecole Polytechnique de Montreal), Martin Lévesque (Ecole Polytechnique de Montreal)

MODELING AND PROGRESSIVE DAMAGE ANALYSIS OF FRP LAMINATES WITH PERIDYNAMIC THEORY
Yile Hu (Shanghai Jiao Tong University), Yin Yu (Shanghai Jiao Tong University), Hai Wang (Shanghai Jiao Tong University)

PREDICTION OF COMPRESSION AFTER IMPACT STRENGTH BASED ON INSTABILITY OF DELAMINATION
Makoto Ichiki (Sophia University), Hiroshi Suemasu (Sophia University), Yuichiro Aoki (Japan Aerospace Exploration Agency)

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DISPLACEMENT BASED FINITE STRIP ANALYSIS OF A CRACKED LAMINATE WITH APPROPRIATE BOUNDARY CONDITIONS FORMULATION
Farrukh Hafeez (The Petroleum Institute), Shuguang Li (University of Nottingham), Fahad Almaskari

VISCOELASTIC SHEAR LAG ANALYSIS OF THE DISCONTINUOUS FIBER COMPOSITE
R. byron Pipes (Purdue University), Nicholas Alan Smith (Purdue University)

INITIATION AND PROPAGATION OF FIBER FAILURE IN COMPOSITE LAMINATES
Endel Iarve (University of Dayton), David H Mollenhauer (Air Force Research Laboratory), Timothy D Breitzman (Air Force Research Laboratory), Kevin Hoos (University of Dayton), Michael Swindeman (University of Dayton)

PREDICTION OF THE HOLE-SIZE EFFECT IN THE OFF-AXIS TENSILE SPECIMEN USING AN INTRINSIC FLAW
Johnathan Goodsell (Purdue University)

A FLOATING NODE METHOD FOR MODELLING MULTIPLE DISCONTINUITIES WITHIN AN ELEMENT
Silvestre T Pinho (Imperial College of Science), Bo Yang Chen (Imperial College of Science), Pedro M Baiz (Imperial College of Science), Nelson V De carvalho (National Institute of Aerospace), Tay T Earn (National University of Singapore)

FLOATING NODE METHOD AND VIRTUAL CRACK CLOSURE TECHNIQUE FOR MODELING MATRIX CRACKING-DELAMINATION MIGRATION
Nelson V De carvalho (National Institute of Aerospace), Bo Yang Chen (Imperial College of Science), Silvestre T Pinho (Imperial College of Science), Pedro M Baiz (Imperial College of Science), James Gordon Ratcliffe (National Institute of Aerospace), Tay T Earn (National University of Singapore)

ANALYSIS OF CRACK MIGRATION IN LAMINATED COMPOSITES USING CONVENTIONAL AND MESH-INDEPENDENT COHESIVE ZONE MODELS
Maria Francesca Pernice (University of Bristol), Luiz Kawashita (Cardiff University), Stephen Richard Hallett (University of Bristol)

AN ANALYTICAL MODEL FOR THE MECHANICAL RESPONSE OF DISCONTINUOUS COMPOSITES
Soraia Pimenta (Imperial College of Science), Paul Robinson (Imperial College of Science)

A MIXED MODE COHESIVE LAW INCLUDING INTERFACE DILATATION UNDER NEAR MODE II FRACTURE
Bent F Sørensen (Technical University of Denmark), Stergios Goutianos (Technical University of Denmark)

UNCERTAINTIES IN THE PREDICTION OF CFRP LAMINATE PROPERTIES IN THE CONTEXT OF A RELIABILITY BASED DESIGN APPROACH

Organized by Canadian Association for Composite Structures and Materials (CACSMA)
Conny Schillo (Technische Universitat Hamburg-Harburg), Dieter Krause (Technische Universitat Hamburg-Harburg)

PROBABILISTIC MODELLING OF THE PROCESS INDUCED VARIATIONS IN PULTRUSION
Ismet Baran (Technical University of Denmark), Jesper Henri Hattel (Technical University of Denmark), Cem C Tutum (Technical University of Denmark)

AN ORIGINAL APPROACH BASED ON A MODIFIED HALPIN TSAI MODEL TO INVESTIGATE THE MORPHOLOGY OF SEPIOLITE FILLED THERMOSETS
Aurélie Taguet (Ecole des Mines d'Alès), Melissa Malige ( ), Stephane Corn (Ecole des Mines d'Alès), José-Marie Lopez-Cuesta (Ecole des Mines d'Alès)

STOCHASTIC SIMULATION OF COMPOSITES CURE
Tassos Mesogitis (Cranfield University), Alex Skordos (Cranfield University), Andrew C Long (University of Nottingham)

THREE-DIMENSIONAL CONSTITUTIVE EQUATION OF SHAPE MEMORY POLYMERS AND THEIR COMPOSITES
Haedong Park (Seoul National University), Woong-ryeol Yu (Seoul National University), Philip Harrison (University of Glasgow), Zaoyang Guo (Chongqing University)

HYGROTHERMALLY STABLE ASYMMETRIC COMPOSITE LAMINATES WITH OPTIMAL COUPLING OF DEFORMATION MODES
Robert Haynes (US Army Research Laboratory), Erian Armanios (University of Texas at Arlington)
MODELLING OF PLATES & SHELLS

FEA BASED INITIAL DESIGN OF A COMPOSITE WIND TURBINE BLADE
Owaisur rahman Shah (École Nationale Supérieure de Techniques Avancées, Bretagne)

IMPROVEMENT OF LIMIT-BASED APPROACH TO STRESS ANALYSIS FOR ORTHOTROPIC COMPOSITE CYLINDERS (0/90) SUBJECTED TO PURE BENDING
Canhui Zhang (Xiamen University), Suong Hoa (Concordia University), Pei Liu (Xiamen University)

POSTBUCKLING ANALYSIS OF A COMPOSITE CYLINDRICAL PANEL WITH FRAMES AND OMEGA STRINGERS
José Reinoso (Universitat Hannover), Antonio Blazquez (Universidad de Sevilla), Federico Paris
(Universidad de Sevilla)

THE NETTING ANALYSIS AS A LIMIT CASE OF THE LAMINATED STRUCTURE THEORY
Georges Verchery (Pluralis)

FINITE ELEMENT MODELING OF THE CRUSHING BEHAVIOR OF GRAPHITE/EPOXY MEMBERS
Deepak Siromani (Drexel University), Tein-min Tan (Drexel University), Jonathan Awerbuch (Drexel University)

INFLUENCE OF IMPERFECTIONS ON AXIAL BUCKLING LOAD OF COMPOSITE CYLINDRICAL SHELLS
Jendi Itjieh Kepple, B. gangadharma Prusty, Garth Morgan Kendall Pearce, Donald Wainwright Kelly
(University of New South Wales), Rodney Thomson, Richard Degenhardt (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

SPACE VARIABLES SEPARATION AND PGD MODEL REDUCTION METHOD TO SOLVE ELASTICITY PROBLEMS ON LAMINATED PLATES AND SHELLS
Brice Bognet, Adrien Leygue, Francisco Chinesta

SEMI-ANALYTICAL POST-BUCKLING AND ULTIMATE STRENGTH ANALYSIS OF COMPOSITE PLATES
Qiao jie Yang (University of Oslo), Brian Hayman (University of Oslo)
MULTIFUNCTIONAL COMPOSITES SYMPOSIUM

A MATERIALS INFORMATICS APPROACH TOWARDS CREATING FUNCTIONALITY AT INTERFACES IN PMC
John Kieffer (University of Michigan - Ann Arbor), Michael Aldridge (University of Michigan - Ann Arbor), Katherine Sebeck (University of Michigan - Ann Arbor), Chen Shao (University of Michigan - Ann Arbor)

MODELING THE RESPONSE OF DUAL CROSS-LINKED NANOPARTICLE NETWORKS TO MECHANICAL DEFORMATION
Anna C. Balazs (University of Pittsburgh), Balaji V. s. Iyer (University of Pittsburgh), Victor V. Yashin (University of Pittsburgh)

VISCOELASTIC BEHAVIOR OF FUNCTIONAL GRADED COMPOSITES USING FINITE ELEMENT METHOD: EXPERIMENTAL AND NUMERICAL ASSESSMENT
Ya Wang (University of Michigan - Ann Arbor), Daniel J. Inman (University of Michigan - Ann Arbor)

BIOINSPIRED NANOSTRUCTURED GLASS FIBRE SURFACE AND COMPOSITE INTERPHASE
Shanglin Gao, Yin hu Deng, Jian wen Liu, Edith Maeder (Leibniz Institute of Polymer Research Dresden)

COMPLIANT MULTIFUNCTIONAL WING STRUCTURES FOR HARVESTING SOLAR ENERGY
Hugh Alan Bruck (University of Maryland at College Park)

SMP FILLED HONEYCOMB AS A RECONFIGURABLE SKIN: MODEL AND EXPERIMENTAL VALIDATION
Richard V Beblo, John P Puttmann (University of Dayton), Nathanial E Deleon, James J Joo, Gregory W Reich (Air Force Research Laboratory)

ADAPTIVE COMPOSITE PANEL WITH EMBEDDED SMA ACTUATORS: DESIGN, MANUFACTURING AND TESTING
Simon Lacasse (Ecole de Technologie Superieure), Charles Simoneau (Ecole de Technologie Superieure), Patrick Terriault (Ecole de Technologie Superieure), Vladimir Brailovski (Ecole de Technologie Superieure)

FROM ATTACHED SMA WIRES TO INTEGRATED ACTIVE ELEMENTS – A SMALL STEP?
Moritz Hübler (Institut fuer Verbundwerkstoffe GmbH), Martin Gurka (Institut fuer Verbundwerkstoffe GmbH), Ulf Paul Breuer (Institut fuer Verbundwerkstoffe GmbH)

SIMULATIONS OF THERMOMECHANICAL PERFORMANCE OF SMP-BASED MICROVASCULAR SYSTEMS
H. jerry Qi (University of Colorado at Boulder), Kai Yu (University of Colorado at Boulder), Jeffery W. Baur (Air Force Research Laboratory), David M Phillips (Air Force Research Laboratory)
CARBON FIBRE REINFORCED EPOXY COMPOSITES WITH VARIABLE STIFFNESS FOR USE IN MORPHING AEROSTRUCTURES
Paul Robinson (Imperial College of Science), Henry Maples (Imperial College of Science), Alexander Bismarck (Imperial College of Science), Oliver Gaite (Imperial College of Science), Stephen Smith (Imperial College of Science)

TOWARD COMPUTATIONAL SMART MATERIALS WITH CONTROLLABLE STIFFNESS
Michael A Mcevoy (University of Colorado at Boulder), Nicholas D. Farrow (University of Colorado at Boulder), Nikolaus Correll (University of Colorado at Boulder)

HIGH STROKE ACTUATION OF ALIGNED CNT-PARAFFIN COMPOSITE FILMS
Davor Copic (University of Michigan - Ann Arbor), A. john Hart (University of Michigan - Ann Arbor)

REPLICA MOLDING OF LIQUID CRYSTAL POLYMER MICROSTRUCTURES FOR ACTIVE SURFACES
Davor Copic (University of Michigan - Ann Arbor), Assaf Ya'akovovitz (University of Michigan - Ann Arbor), A. john Hart (University of Michigan - Ann Arbor)

MULTIFUNCTIONAL COMPOSITES BY SEGMENTATION AND ASSEMBLY
Thomas Siegmund (Purdue University), Somesh Khandelwal (Purdue University)

HIGH PERFORMANCE, ELECTROLYTE-FREE TORSIONAL AND TENSILE CARBON NANOTUBE YARN COMPOSITE MUSCLES

HIGHLY TWISTED DOUBLE-HELIX CARBON NANOTUBE YARNS
Yuanyuan Shang (Harbin Institute of Technology)

BENDING AND MECHANICAL BEHAVIORS OF CNF/PPY CONDUCTIVE SINGLE-LAYER COMPOSITE MATERIAL
Cheol Kim (Kyungpook National University)

INTEGRATION OF LINEAR THERMOELECTRIC MODULES COMPOSED OF LOW AND INTERMEDIATE TEMPERATURE P- AND N-TYPE METALLIC SEMICONDUCTORS INTO COMBUSTION CHAMBER WALLS
Minoru Taya (University of Washington)

PROCESS-STRUCTURE-PROPERTY RELATIONSHIP FOR ORGANIC SEMICONDUCTORS GROWN BY ORGANIC VAPOR JET PRINTING
Olga Shalev (University of Michigan - Ann Arbor), Max Shtein (University of Michigan - Ann Arbor), Shaurjo Biswas (University of Michigan - Ann Arbor)
ELECTROMECHANICAL CHARACTERIZATION OF BARIUM TITANATE COATED CARBON FIBERS
Christopher Bowland (University of Florida), Zhi Zhou (University of Florida), Henry Sodano (University of Florida)

LAYER-BY LAYER ASSEMBLED MULTIFUNCTIONAL COMPOSITES
Nicholas A. Kotov, Jian Zhu

CARBON NANOSTRUCTURES FOR FLEXIBLE AND HIGH EFFICIENCY ENERGY APPLICATION
Wonbong Choi (University of North Texas)

TAILORED ALIGNED-CARBON NANOTUBE NANOCOMPOSITES FOR ENERGY STORAGE
Noa Lachman (Massachusetts Institute of Technology), Brian Wardle (Massachusetts Institute of Technology)

MECHANICAL RELIABILITY OF INORGANIC THIN FILM PHOTOVOLTAICS INTEGRATED WITH COMPOSITE LAMINATES
Dimitrios Antartis (University of Illinois at Urbana-Champaign), Ioannis Chasiotis (University of Illinois at Urbana-Champaign)

THE EFFECTS OF STRUCTURAL INTEGRATION AND MECHANICAL DEFORMATION ON THE ELECTRO-MECHANICAL PERFORMANCE OF STRUCTURAL BATTERIES
Salah M Shalouf (Royal Melbourne Institute of Technology)

FROM SMART SENSING TO MULTIFUNCTIONAL MATERIALS: ARE WE READY FOR THE CHALLENGES?
Fu-kuo Chang (Stanford University)

BIO-INSPIRED NEUROMORPHIC NETWORK BASED ON CARBON NANOTUBE/POLYMER COMPOSITES
K. Kim, A. Tudor, C-L. Chen, B. Cho, A. M. Shen, D. Lee, and Y. Chen (University of California)

CARBON NANOTUBES FOR IN SITU THERMOMECHANICAL AND THERMOCHEMICAL SENSING IN COMPOSITES
Kalon L Lasater (University of Delaware), Gaurav Pandey (University of Delaware), Erik T Thostenson (University of Delaware)

CONDUCTIVE POLYANILINE NANOCOMPOSITES: ELECTROCHROMIC BEHAVIOR, ELECTROCHEMICAL ENERGY STORAGE AND GIANT MAGNETORESISTANCE SENSOR
John zhanhu Guo (Lamar University), Huige Wei (Lamar University), Hongbo Gu (Lamar University), Jiahua Zhu (Lamar University), Suying Wei (Lamar University)
USE OF CARBON FIBER SENSORS TO DETERMINE THE RESIN FLOW
Mohsen Bakhshi (Hochschule Munchen), Alexander Horoschenkoff (Hochschule Munchen)

MODELING AND SIMULATION OF SLOTTED WAVEGUIDE ANTENNA STIFFENED STRUCTURES
Woon kyung Kim, Robert A Canfield (Virginia Polytechnic Institute and State University (Virginia Tech)), William G Baron, James M Tuss, Jason E Miller (Air Force Research Laboratory)

DIELECTROPHTHORETICALLY STRUCTURED PIEZOELECTRIC COMPOSITES
Hamideh Khanbareh (Delft University of Technology), Pim Groen (Delft University of Technology), Sybrand Van der zwaag (Delft University of Technology)

FUNCTIONALIZED GRAPHENE-BATO3/FERROELECTRIC POLYMER NANOCOMPOSITES WITH EXCELLENT DIELECTRIC PROPERTIES
Zhi-min Dang (University of Science and Technology Beijing), Dongrui Wang (University of Science and Technology Beijing)

MANUFACTURING OF PREPREG WITH MICROCAPSULES FOR SELF HEALING COMPOSITES
Sang yup Kim (University of Illinois at Urbana-Champaign), Nancy R Sottos (University of Illinois at Urbana-Champaign), Scott R White (University of Illinois at Urbana-Champaign)

MULTILAYER COMPOSITES WITH SELF-HEALING CAPABILITY BASED ON AN EMAA IONOMER
Antonio Mattia Grande, Luca Castelnovo, Luca Di landro Giuseppe Sala (Polytechnic Institute of Milan), Cinzia Giacomuzzo, Alessandro Francesconi (University of Padua)

SELF-HEALING OF A FIBRE REINFORCED POLYMER COMPOSITE MATERIAL USING METAL TRIFLATES AS CATALYTIC CURING AGENTS
Tim S Coope (University of Bristol), Ian P Bond (University of Bristol), Richard S Trask (University of Bristol), Duncan F Wass (University of Bristol)

AUTONOMOUS RESTORATION OF ELECTRICAL INTERFACES
Nancy R Sottos (University of Illinois at Urbana-Champaign)

THERMAL-MECHANICAL BEHAVIOR OF ACTIVELY COOLED VASCULARIZED COMPOSITES
Anthony M Coppola (University of Illinois at Urbana-Champaign), Nancy R Sottos (University of Illinois at Urbana-Champaign), Scott R White (University of Illinois at Urbana-Champaign)

ACTIVELY COOLED BATTERY PACKAGING USING VASCULAR COMPOSITES
Stephen John Pety (University of Illinois at Urbana-Champaign), Nancy R Sottos (University of Illinois at Urbana-Champaign), Scott R White (University of Illinois at Urbana-Champaign)
A MULTIFUNCTIONAL MICROPOROUS POLYMER NANOCOMPOSITE WITH GRAPHENE NANOPLATELETS
Diandra Rollins (Michigan State University), Lawrence T Drzal (Michigan State University)

TWO-PHASE PORO-VASCULAR LAMINATES WITH STRUCTURE-PLUS-SURFACE ROUGHNESS CONTROL
James P. Thomas, Marriner Merrill, Andrew T. Smith, David Kessler, Michael Baur, Siddiq Qidwai, Alberto Pique (Naval Research Laboratory), Christopher Kindle (Science Applications International, Inc.)

MULTIFUNCTIONAL COMPOSITE MATERIALS FOR BIO-INSPIRED SYSTEMS ALLOWING AUTONOMIC RESPONSE

ENERGY HARVESTING AND SHOCK MITIGATION IN COMPOSITE STRUCTURES
Chris Lynch (University of California, Los Angeles)

AUTONOMIC BIOMOLECULAR MATERIAL SYSTEMS AS MULTIFUNCTIONAL COMPOSITES
Donald Joseph Leo

THROUGH-THICKNESS ELECTRICAL RESISTANCE IN GLASS/EPOXY/CNTS COMPOSITE LAMINATES SUBJECTED TO MECHANICAL LOADING
Ali Naghashpour (Concordia University), Suong Hoa (Concordia University)

CARBON FIBER / EXPANDED POLYPROPYLENE COMPOSITE FOR ISOTROPIC CONDUCTIVITY
Jeong u Roh (Seoul National University), Woo il Lee (Seoul National University)

IMPROVED ELECTRICAL CONDUCTIVITY OF CARBON NANOTUBE MAT COMPOSITE PREPARED BY IN-SITU POLYMERIZATION
Seong yun Kim (Korea Institute of Science and Technology)

A STUDY OF THE ELECTROMAGNETIC PROPERTIES OF IRON-MULTIWALLED CARBON NANOTUBES COMPOSITES
Gang Liu (Beijing Institute of Aeronautical Materials BIAM), Jianwen Bao (Beijing Institute of Aeronautical Materials BIAM), Ming Jian Sun (Beihang University), Yan Zhao (Beihang University)

SELECTIVE LASER SINTERING FOR MANUFACTURING OF EXFOLIATED GRAPHITE NANOPLATELETS/POLYAMIDE12 MULTIFUNCTIONAL NANOCOMPOSITES
Mehdi Karevan (Georgia Institute of Technology), Shaun Eshraghi (Georgia Institute of Technology), Suman Das (Georgia Institute of Technology), Kyriaki Kalaitzidou (Georgia Institute of Technology)
OPTIMAL FIBER PLACEMENT INCLUDING EFFECTS OF EMBROIDERY
Tatsuya Nishida (Nagoya University), Tadashige Ikeda (Nagoya University), Atsuhiko Senba (Nagoya University)

ULTRASTRONG, STIFF AND MULTIFUNCTIONAL CARBON NANOTUBE COMPOSITES
Yuntian T. Zhu (North Carolina State University)

COMPARING ELECTROMECHANICAL CHARACTERISTICS OF POLYMER – CARBON NANOTUBE AND POLYMER – CARBON FIBRE – CARBON NANOTUBE COMPOSITES
Cyrill Cattin (McGill University), Wenjiao Liu (McGill University), Pascal Hubert (McGill University)
MULTI-FUNCTIONAL NANOCOMPOSITES

HOW DO CARBON NANOTUBE FIBERS GAIN THEIR STRENGTH?
Keynote: Tsu-wei Chou (University of Delaware)

EROSIVE AND ABRASIVE WEAR RESISTANCE OF TRANSPARENT NANOCOMPOSITE COATINGS FILLED WITH SILICA NANOPARTICLES
Zhong Zhang (National Center for Nanoscience and Technology)

PREPARATION AND PROPERTIES OF MMT/EPOXY/CARBON FIBER MULTI-SCALE COMPOSITE
Shijie Zhang (Xi’an Aerospace Composite Materials Research Institute)

ANALYSIS OF CARBON NANOTUBE INTEGRATED COMPOSITE STRUCTURES USING MULTISCALE APPROACH
Zeaid Hasan (Arizona State University), Aditi Chattopadhyay (Arizona State University)

EFFECT OF CURRING PARAMETERS ON DISPERSION AND ELECTRICAL CONDUCTIVITY OF EPOXY/CNT COMPOSITES DEFINE BY IMAGE ANALYSIS
Ewelina Ciecierska (Technical University of Warsaw), Anna Boczkowska (Technical University of Warsaw), Krzysztof Jan Kurzydlowski (Technical University of Warsaw)

MULTI-SCALE MODELING OF INTERFACIAL BEHAVIOR OF CNT/POLYMER COMPOSITE BY MD AND CFE METHOD
Qingsheng Yang (Beijing University of Technology), Xia Liu (Beijing University of Technology)

PREPARATION OF GRAPHENE WITH CONTROLLED REDUCTION DEGREE AND STUDY OF ELECTROMAGNETIC PROPERTIES OF THEIR NANOCOMPOSITES
Qi Dong (Beihang University), Yan Zhao (Beihang University), Yijun Jiang (COMAC Sadri), Xionggang Shen (Beihang University)

ELECTROMAGNETIC PROPERTIES OF COBALT–REDUCED GRAPHENE OXIDE (CO-RGO)/EPOXY COMPOSITES
Yan Wang (Beijing University of Aeronautics and Astronautics), Yan Zhao (Beihang University), Yuqin Su (Beihang University), Xiaohua Lu (Tsinghua University)

EFFECT OF HUMIDITY ON ELECTRICAL CONDUCTIVITY OF CARBON NANOTUBE-MODIFIED EPOXY
Behnam Ashrafi (National Research Council Canada)
MULTI-FUNCTIONAL SMART COMPOSITES

CHARACTERIZATION OF MULTI-FUNCTIONAL COMPOSITES WITH PRINTED PRESSURE SENSORS
Dominik Krumm (Chemnitz University of Technology), Marko Illing (Chemnitz University of Technology), Stephan Odenwald (Chemnitz University of Technology)

IN SITU MONITORING OF NANOPARTICLE FILTRATION IN CARBON NANOMATERIAL/GLASS FIBER/ POLYESTER MULTISCALE COMPOSITES DURING VARTM
Joel renaud Ngouanom Gnidakouuong, Young Bin Park, Myungssoo Kim, Hyung Wook Park, Ho Soon Jeong, Young Bok Jung, Kyungsik Han, Sung Kyu Ahn (Ulsan National Institute of Science and Technology), Joung-man Park (Gyeongsang National University)

PIEZORESISTANCE CHARACTERIZATION OF PVDF-MWNT NANOCOMPOSITES
Reza Rizvi (University of Toronto), Hani E Naguib (University of Toronto)

NANOINDENTATION RESPONSE OF PIEZOELECTRIC COMPOSITE MATERIALS
Guang Cheng (State University of New York at Stony Brook), T.a. Venkatesh (State University of New York at Stony Brook)

PREPARATION AND CHARACTERIZATION OF NANOCELLULOSE/PVA GREEN COMPOSITES
Hitoshi Takagi (University of Tokushima)

MAGNETOElastic RESPONSES OF A BI-LAYERED COMPOSITE CYLINDER WITH AN EMBEDED TIME-HARMONIC EIGENSTRAIN
Hamid Akbarzadeh (University of New Brunswick), Armin Abedini (University of New Brunswick), Zengtao Chen (University of New Brunswick)

CARBON FIBRE SENSOR FOR CRACK MONITORING OF COMPOSITE MATERIALS
Tobias Müller (Universitat der Bundeswehr Munchen), Alexander Horoschenkoff (Hochschule Munchen), Helmut Rapp (Universitat der Bundeswehr Munchen)

BINARY BRUSHES: A NOVEL APPROACH TOWARDS ENHANCED INTERFACIAL TUNABILITY IN MULTIFUNCTIONAL POLYMER NANOCOMPOSITES
Bharath Natarajan, Ying Li, Linda Schadler (Rensselaer Polytechnic Institute), Tony Neely, Atri Rungta, Brian C Benicewicz (University of South Carolina - Columbia)

ADAPTATION OF DEVELOPING TENDON-TO-BONE INSERTION SITE TO OPTIMIZE STRESS ENVIRONMENT
Yanxin Liu, Annie Gitomer Schwartz, Stavros Thomopoulos, Guy M Genin (Washington University in St. Louis), Victor Mark Birman (Missouri University of Science and Technology)
EFFECTS OF POROSITY SHAPE ON THE ELECTROMECHANICAL RESPONSE OF 3-3 PIEZOELECTRIC FOAMS
Krishna S Challagulla (Laurentian University), Benjamin V Nguyen (Laurentian University)

EFFECT OF FOAM SHAPE AND PIEZOELECTRIC MATERIAL PROPERTIES ON THE ELECTROMECHANICAL RESPONSE OF 3-3 PIEZOELECTRIC FOAMS
Krishna S Challagulla (Laurentian University), Jaspreet Singh (Laurentian University), T.a. Venkatesh (State University of New York at Stony Brook)

THE BEHAVIOUR OF MAGNETO-RHEOLOGICAL ELASTOMERS UNDER EQUIBIAXIAL TENSION
Philip Harrison (University of Glasgow), Gerlind Schubert (University of Glasgow), Zaoyang Guo (Chongqing University)

SHAPE MEMORY ALLOY LAMINATE FOR DESIGN OF SELF-FOLDING RECONFIGURABLE STRUCTURES
Edwin Alexander Peraza-hernandez (Texas A&M University), Darren John Hartl (Texas A&M University), Dimitris C Lagoudas (Texas A&M University)

ANALYTICAL AND NUMERICAL MODELING FOR 3D SMART ORTHOTROPIC GRID-REINFORCED COMPOSITE STRUCTURES
Edris Hassan (Dalhousie University)

SHAPE MEMORY POLYMER BASED NANOCOMPOSITE ACTUATORS
Qing-qing Ni (Shinshu University)

ASYMPTOTIC HOMOGENIZATION MODELING OF MAGNETO-ELECTRIC SMART
Alexander L. Kalamkarov (Dalhousie University)

ELECTRICAL BEHAVIOR OF A CFRP UNIDIRECTIONAL LAMINATE UNDER TEMPERATURE VARIATION
Kosuke Takahashi (Tokyo Institute of Technology), Takahiro Fujimura (Tokyo Institute of Technology), Kazuaki Inaba (Tokyo Institute of Technology), Kikuo Kishimoto (Tokyo Institute of Technology)
MULTI-SCALE MODELING

PARAMETRIC STUDY OF SIMULATION PARAMETERS FOR MOLECULAR DYNAMICS MODELING OF Reactive CARBON GASES USING REAXFF
Benjamin D. Jensen (Michigan Technological University), Ananyo Bandyopadhyay (Michigan Technological University), Kristopher E. Wise (NASA), Gregory Odegard (Michigan Technological University)

APPROACH FOR DRY TEXTILE COMPOSITE FORMING SIMULATION
Masato Nishi (JSOL Corporation), Tei Hirashima (JSOL Corporation)

MESO-MECHANICAL INVESTIGATION OF WOVEN CARBON FIBER REINFORCED PLASTIC
Bertram Stier (Rheinisch Westfälische Technische Hochschule Aachen), Jaan Willem Simon (Rheinisch Westfälische Technische Hochschule Aachen), Stefanie Reese (Rheinisch Westfälische Technische Hochschule Aachen)

MOLECULAR MODELING OF PHYSICAL AGING IN EPOXY POLYMERS
Ananyo Bandyopadhyay (Michigan Technological University), Gregory Odegard (Michigan Technological University)

NUMERICAL MODELLING OF THE WEAVING PROCESS FOR TEXTILE COMPOSITE
Jérôme Villayeau (ENSAIT), David Crepin, Damien Soulat, François Boussu (Ecole Nationale Superieure des Arts et Industries Textiles), Philippe Boisse (Institut National des Sciences Appliquees de Lyon)

A NOVEL APPROACH TO MODELLING OF FIBER-REINFORCED COMPOSITES WITH CARBON NANOTUBES
Valentin S. Romanov (Katholieke Universiteit Leuven), Stepan V. Lomov (Katholieke Universiteit Leuven), Larissa Gorbatikh (Katholieke Universiteit Leuven), Ignas Verpoest (Katholieke Universiteit Leuven)

MULTISCALE ANALYSIS FOR PREDICTION OF STRENGTH IN TEXTILES UNDER COMBINED THERMOMECHANICAL LOADING
Wesley Ross McLendon (Texas A&M University), John D Whitcomb (Texas A&M University)

MOLECULAR DYNAMICS AND THE CORRESPONDING RHEOLOGICAL RESPONSE OF POLYMER NANOCOMPOSITES
Donggi Seong (Korea Institute of Materials Science)

NUMERICAL DESIGN OF COMPOSITE MATERIALS THROUGH MULTI-SCALE COMPUTER SIMULATION
John Leach (Battelle Memorial Institute), James Mackiewicz

ESTIMATION OF RESIN FLOW FOR FRP BASE ON MPS METHOD
Shota Nodomi (Osaka University), Tetsude Kurashiki (Osaka University), Ziming Guo (Osaka University), Gaku Yoshikawa (Osaka University), Fumikazu Miyasaka (Osaka University)
FREE EDGE ANALYSIS OF CFRP LAMINATES BASED ON A HOMOGENIZATION THEORY FOR TIME-DEPENDENT COMPOSITES
Keita Goto (Tsukuba University), Tetsuya Matsuda (Tsukuba University)
NANOCLAYS

HIGH-PERFORMANCE EPOXY HYBRID NANOCOMPOSITES MODIFIED BY NANOCLAY AND PES

Boming Zhang (Beihang University), Yang Wang (Beihang University)

MIXED MODE FRACTURE BEHAVIOR OF EPOXY/NANOCLAY NANOCOMPOSITES

Michele Zappalorto (University of Padua), Marco Salviato, Marino Quaresimin (University of Padua)

FABRICATION AND PROPERTY STUDY OF POLYMER/FIBER/CLAY TERNARY COMPOSITES

Xu Li (Istitute of Materials research and Engineering)

DEVELOPMENT HIGH TEMPERATURE RESISTANT MATERIALS USING CARBON/PHENOLIC PREPREGS WITH NANOCLAYS

Exequiel Santos Rodríguez (Universidad Nacional de Mar del Plata)
NANOCOMPOSITES

ENHANCED MECHANICAL AND ELECTRICAL PROPERTIES OF IN-SITU CROSS-LINKED BUCKYPAPER
Jianwei Zhang (National University of Defense Technology), Dazhi Jiang (National University of Defense Technology), Hua-xin Peng (University of Bristol)

MECHANISMS OF STRAIN INDUCED ALIGNMENT OF CARBON NANOTUBES (CNT): PROCESS SCALE-UP AND QUASI-CONTINUOUS HIGHLY ALIGNED CNT MATERIAL
Richard Liang (Florida State University)

EFFECT OF IRON-DEPOSITED REDUCED GRAPHENE OXIDES ON THE NEAR-FIELD ELECTROMAGNETIC ABSORBING PROPERTY OF COMPOSITE FILMS
Jin woo Yi (Korea Institute of Materials Science)

SWCNT FUNCTIONALIZATION FOR OPTIMIZED ELECTRICAL CONDUCTIVITY OF EPOXY MATRICES
Yadienka Martinez rubi, Christopher Kingston, Benoît Simard (NRC), Jose Miguel Gonzalez-dominguez, Alejandro Anson-casaos, Maria Teresa Martinez (Consejo Superior de Investigaciones Cientifias (CSIC))

ELABORATION AND INVESTIGATION ABOUT THE MECHANICAL PROPERTIES OF REINFORCED ALIGNED MULTI-WALLED CARBON NANOTUBE CARPETS COMPOSITES
Jonathan Bouillonnec (Commisariat a lenergie atomique et aux energies alternatives CEA)

ATOMISTIC SIMULATION OF DEFORMATION AND FAILURE MECHANISMS IN CU/SIC NANOCOMPOSITES
Zhenyu Yang (Beijing University of Aeronautics and Astronautics)

SWCNT COMPOSITES, INTERFACIAL STRENGTH AND MECHANICAL PROPERTIES
R. mikael Larsen (Aalborg University), Jing Ma (Aalborg University)

THE ROLE OF NITROGEN ON CARBON NANOTUBES-GRAFTED ACTIVATED CARBON FIBERS
Yu-chun Chiang (Yuan Ze University)

EFFECT OF NANOCLAY ON FIRE PERFORMANCE OF HYBRID NANOCOMPOSITE
Quynh Thuy Nguyen (University of Melbourne), Priyan Mendis (University of Melbourne), Tuan Ngo (University of Melbourne), Debes Bhattacharyya (University of Auckland)

EFFECT OF MORPHOLOGY ON FRACTURE TOUGHNESS OF THERMOPLASTIC/THERMOSET/CLAY HYBRID NANOCOMPOSITES
Sina Chaeichian (Concordia University), Paula Wood-adams (Concordia University), Suong Hoa (Concordia University)

Organized by Canadian Association for Composite Structures and Materials (CACSMA)
PROCESSING AND TACTICITY EFFECT ON GLASS TRANSITION TEMPERATURE OF PMMA/GRAFHENE NANO-COMPOSITES.
Shigeru Aoyama (University of Minnesota - Twin Cities Campus), Ken-Hsuan Liao (University of Minnesota - Twin Cities Campus), Christopher W. Macosko (University of Minnesota - Twin Cities Campus)

ON SLIDING FRICTION OF PEEL-PLY TEXTURED EPOXY RESIN SURFACES CONTAMINATED BY AIRCRAFT OPERATING FLUIDS
Lennart Weiß (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR)), Thilo Glaser (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR)), Christian Hühne (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

HYBRID WOVEN GLASS FIBRE FABRIC-CARBON NANOTUBE-EPOXY COMPOSITES
Tina Lekakou (University of Surrey)

FUNCTIONAL COMPOSITES OF EPOXY / SILVER-FILLER USING SELF-ASSEMBLY PHASE STRUCTURES
Hajime Kishi (University of Hyogo)

ELECTROSPUN NANOFIBROUS COMPOSITES TO CONTROL DRUG RELEASE AND INTERACTION BETWEEN HYDROPHILIC DRUG AND HYDROPHOBIC BLENDED POLYMER MATRIX
Yu Dong (Curtin University of Technology), Hazim J. Haroosh (Curtin University of Technology)

CERAMIC/METAL NANOCOMPOSITES: LYOPHILIZATION AND SPARK PLASMA SINTERING
Carlos Fidel Gutierrez-Gonzalez, Ramon Torrecillas, Sonia Lopez-esteban (Consejo Superior de Investigaciones Cientificas (CSIC)), Said Agouram (Universidad Politecnica de Valencia)

SYNTHESIS OF METAL AND METAL OXIDE/CNTS HYBRID NANOPARTICLES AND THEIR REINFORCEMENTS IN POLYMERS
Vijaya K Rangari (Tuskegee University)

CARBON NANOFIBERS WITH MULTI-CHANNELED SILICON COMPARTMENTS: FABRICATION AND ELECTROCHEMICAL PROPERTIES
Hosung Yang (Seoul National University), Byoung-sun Lee (Seoul National University), Woong-ryeol Yu (Seoul National University)

MICROSCOPIC PROPERTIES AND NUMERICAL SIMULATION OF ALIGNED CNT SHEET COMPOSITES
Tsuda Terumasa (The University of Tokyo)
SELF-DISPERSION OF CARBON NANOTUBES IN THERMOPLAST POLYMER
Ekaterina Pavlenko, Pascal Puech, Wolfgang Bacsa (Universite Paul Sabatier (Toulouse III)), Victoria Tishkova, Philippe Salles (Centre National de la recherche scientifique CNRS)

STIFF AND DUCTILE NANOCOMPOSITES OF EPOXY REINFORCED WITH CELLULOSE NANOFIBRILS
Mohd Farhan Ansari (Royal Institute of Technology), Sylvain Galland (Royal Institute of Technology), Patrik Sven Fernberg (Swerea SICOMP), Lars A. Berglund (Royal Institute of Technology)

MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ISOTACTIC POLYPROPYLENE REINFORCED WITH TiO2 NANOPARTICLES
Ahmad Zohre vand (Ecole Polytechnique de Montreal), Abdellah Ajji (Ecole Polytechnique de Montreal), Frej Mighri (Laval University)

OPTIMIZING THE PRODUCTION OF NANOCOMPOSITES VIA EXTRUSION TECHNIQUES USING NANOPARTICLE CONTAINING DISPERSIONS AND THEIR DISPERSION QUALITY
Irene Hassinger (Institut fuer Verbundwerkstoffe GmbH), Thomas Burkhart (Institut fuer Verbundwerkstoffe GmbH), Rolf Walter (Institut fuer Verbundwerkstoffe GmbH)
NANOCOMPOSITES - POSTER

ELECTRICAL PROPERTIES OF SELF-ALIGNED IN-SITU REDUCED GRAPHENE OXIDE/EPOXY NANOCOMPOSITES
Nariman Yousefi, Xiuyi Lin, Qingbin Zheng, Xi Shen, Jayaram R Pothnis, Jingjing Jia, Jang-kyo Kim

WRINKLING IN GRAPHENE OXIDE PAPERS: EFFECT ON YOUNG’S MODULUS
Xi Shen, Xiuyi Lin, Nariman Yousefi, Jingjing Jia, Jang-kyo Kim

THE TOUGHNESS OF EPOXY POLYMERS AND FIBRE COMPOSITES MODIFIED WITH RUBBER MICROPARTICLES AND SILICA NANOPARTICLES
Tony Kinloch

NANOCLAY EXFOLIATION PROCESS FOR EPOXY/ORGANOCLAY NANOCOMPOSITES: EFFECT OF EPOXY REACTIVE DILUENTS AND DIAMINE CURING AGENTS
Wiwat Keyoonwong, Masatoshi Kubouchi, Saiko Aoki

IMPROVED YOUNG’S MODULUS OF GRAPHENE PAPERS MADE FROM LARGE GRAPHENE OXIDE SHEETS
Xi Shen, Xiuyi Lin, Nariman Yousefi, Jingjing Jia, Jang-kyo Kim

ELECTRICAL PROPERTY OF MULTIWALLED CARBON NANOTUBES/EPOXY COMPOSITES
Jun Li, George Zhenghong Zhu, Shen Gong

MECHANICAL PROPERTIES AND ENERGY ABSORPTION BEHAVIOUR OF POLYMER-NANOCOMPOSITES
James Njuguna, Laura Gendre, Jinchun Zhu

THERMAL ELASTIC BUCKLING OF PLATES MADE OF CARBON NANOTUBE-REINFORCED POLYMER COMPOSITE MATERIALS
Jairan Nafardastgerdi

FABRICATION OF AG-MWNT COMPOSITE NANOPASTE FOR STRETCHABLE AND PRINTABLE ELECTRONICS
Kwang-seok Kim, Bum guen Park, Kwangho Jung, Seung-boo Jung

MANUFACTURING AND CHARACTERIZATION OF THERMOPLASTIC COMPOSITES USING POLYARYLATE/PET ISLAND-IN-A-SEA FIBERS
Dakyoung Yong, Jaejung Yoo, Taemin Hong, Seunggoo Lee

MECHANICAL BEHAVIOR OF SILANE GRAFTED GRAPHENE NANOPATELETS / SILICONE RUBBER COMPOSITES
Ting-yu Wu, Ting-yu Chang
SOL GEL MODIFIED DERIVED CAO-MGO-SIO2 CERAMIC GLASS SYSTEM PREPARATION AND IN VITRO CHARACTERIZATION  
C. Yamagata, M. Rafaela Soares Paiva, O. Zazuko Higa, A. Cecilia Dorion Rodas, A. Carlos Franco Silveira, S. Thadeu Reis

STRUCTURE-PROCESS-PROPERTY RELATIONSHIP OF EXFOLIATED GRAPHITE NANOPlatelet / POLYLACTIC ACID COMPOSITES THIN FILMS  
Erin Sullivan, Kyriaki Kalaitzidou, Ben Wang

EFFECT OF CARBON NANOFIBERS ON COMPRESSION PROPERTIES OF POLYESTER  
Yuanxin Zhou, Shaik Zainuddin, Shaik Jeelani

CURRENT-VOLTAGE CHARACTERISTICS OF NANO-PLATELET BASED CONDUCTIVE NANO-COMPOSITES  
Amirhossein Biabangard oskouyi, Uttandaraman Sundararaj, Pierre Mertiny

UREAURETHANES WITH ADDITION OF BOEHMITE  
Kamila Pietrzak, Joanna Ryszkowska

EFFECTS OF COUPLING AGENTS AND SURFACE TREATED CARBON NANOTUBES IN PET REGRANULATES DERIVED FROM BOTTLE WASTES  
Csilla Varga

ON THE INTERFACE MODIFICATION AND MICROSTRUCTURE CONTROL OF REINFORCING PARTICLES IN AGSNO2 ECM  
Lawson Chen, Xiaotong Chen, Weili Liu

A STUDY ON THERMAL SHOCK RESPONSE OF AL-AL2O3 MICRO- AND NANOCOMPOSITES  
Khushbu Dash, Bankim Chandra Ray

EFFECT OF CARBON NANOTUBES ADDITION ON THE PROPERTIES OF FLEXIBLE POLYURETHANE FOAMS  
Anna Bryskiewicz, Joanna Ryszkowska

DEVELOPMENT STUDY OF LIGHTWEIGHT STRUCTURAL MATERIALS USING UD CARBON NANOTUBE SHEET  
NATURAL FIBER COMPOSITES

CARBON TEMPLATE FROM HEMP HURD POWDER
Zili Yan (University of Southern Queensland), Tian Ma (), Jianchun Zhang (), Hua Zhang (People's Liberation Army), Hao Wang (University of Southern Queensland)

WHAT ARE THE POSSIBLE ORIGINS OF THE NONLINEAR TENSILE BEHAVIOUR OF HEMP FIBRES?
Vincent Placet (FEMTO-ST), Frederique Trivaudey (FEMTO-ST), Ousseynou Cisse (FEMTO-ST), M Lamine Boubakar (FEMTO-ST)

INFLUENCE OF FIBRE ARCHITECTURE ON IMPACT AND FATIGUE BEHAVIOUR OF FLAX FIBE-BASED COMPOSITES
Farida Bensadoun, Delphine Depuydt, Joris Baets, Aart Willem Van vuure, Ignaas Verpoest (Katholieke Universiteit Leuven)

A METHODOLOGY TO ASSESS THE MECHANICAL BEHAVIOR OF PLANT FIBERS - APPLICATION TO FLAX FIBER ROVINGS UNDER TENSILE LOADING
Antoine Barbulée (ENSICAEN/UCBN/CNRS), Joël Bréard (Université du Havre / CNRS), Jean-Paul Jernot (ENSICAEN/UCBN/CNRS), Moussa Gomina (ENSICAEN/UCBN/CNRS)

THE RECOVERY, REPROCESSING AND REUSE OF WASTE GLASS FIBRE FABRICS: CLOSED-LOOP RECYCLING
Claire Fiona Wait, Nicholas Shotton-gale, Mohammed Shafiq Irfan, Surya Pandita, Liwei Wang, Mark Paget, Roger Price, John James, Gerard Fernando (University of Birmingham)

INTERFACIAL ADHESION AND MECHANICAL BEHAVIOUR OF NATURAL FIBRE COMPOSITES: EFFECT OF SURFACE ENERGY AND PHYSICAL ADHESION
Carlos Anibal Fuentes, Le Quan Ngoc Tran, Christine Dupont-gillain, Aart Willem Van vuure, Ignaas Verpoest (Katholieke Universiteit Leuven)

FLAME RETARDANT KENAF/PLA BIOCOMPOSITES: EFFECT OF AMMONIUM POLYPHOSPHATE
Donghwan Cho (Kumoh National University of Technology)

POLYPROPYLENE/KENAF COMPOSITES: THEIR MECHANICAL/FIRE RETARDANT PROPERTIES AND FIBER LENGTH RETENTION IN TWIN SCREW PROCESSING
Debes Bhattacharyya (University of Auckland)

EFFECT OF REPROCESSING CYCLES ON MORPHOLOGY AND PROPERTIES OF ETHYLENE VINYL ACETATE (EVA) COPOLYMER/OLIVE HUSK FLOUR COMPOSITES
Mustapha Kaci (Universite de Bejaia)
EXPERIMENTAL AND THEORETICAL STUDY OF THE TENSILE MODULUS OF NEEDLE PUNCHED HEMP FIBER MAT COMPOSITES
Mahi Fahimian (University of Manitoba), Raghavan Jayaraman (University of Manitoba)

MECHANICAL TESTING OF SCALED CELLULOSE NANO-FIBER BASED COMPOSITES MADE USING MICRO-RTM PROCESS
Bamdad Barari (University of Wisconsin - Milwaukee), Krishna M. Pillai (University of Wisconsin - Milwaukee)

NATURAL FIBER REINFORCED BIOCOMPOSITES: EFFECT OF FIBER TREATMENTS BY ULTRASOUND
Mohammad Dalour Beg (Universiti Malaysia Pahang)

CARBOHYDRATE DERIVED CO-POLY(LACTIDE) AS COMPATIBILISER FOR BACTERIAL CELLULOSE REINFORCED POLYLACTIDE NANOCOMPOSITES
Koon-yang Lee (Imperial College of Science), Thanit Montrikittiphant (Imperial College of Science), Min Tang (Imperial College of Science), Charlotte Williams (Imperial College of Science), Alexander Bismarck

A NEW BIODEGRADABLE BIOPLASTIC TERNARY BLEND AS NEW MATRIX SYSTEM FOR BIOCOMPOSITE USES
Kunyu Zhang (University of Guelph), Amar K Mohanty (University of Guelph), Manjusri Misra (University of Guelph)

TPI EFFECT ON RESIN IMPREGNATION IN VARTM AND ITS MECHANICAL PROPERTIES FOR NATURAL FIBER COMPOSITES
Junji Noda (Yamaguchi University)

FLEXURAL FATIGUE BEHAVIOUR OF NEW ENGINEERED BIOCOMPOSITES FROM POLY (3-HYDROXYBUTYRATE-CO-HYDROXYVALERATE) (PHBV)/POLY (BUTYLENE ADIPATE-CO-TEREPHTHALATE) (PBAT) BLENDS AND SWITHGRASS
Anh dung Ngo (Ecole de Technologie Superieure), Manjusri Misra, Vidhya Nagarajan (University of Guelph), Amar K Mohanty (University of Guelph), Martin Cardonne, Mohamed Khay (École de technologie supérieure - Université du Québec)

STUDY OF THE REPROCESSING EFFECTS ON THE BEHAVIOR OF THE PVC/ALFA COMPOSITES COMPATIBILIZED WITH PVC-G-MA
Amar Boukerrou (Universite de Bejaia), Dalila Hammiche (Universite de Bejaia), Alain Bourmaud (Universite de Bretagne Sud), Hocine Djidjelli (Universite de Bejaia), Yves Grohens (Universite de Bretagne Sud)

INTRODUCTION OF SOCIETY OF AUTOMOTIVE COMPOSITES JAPAN - A NEW WAVE OF COMPOSITES FOR AUTOMOBILE INDUSTRY
Keynote: Hiroyuki Hamada (Kyoto Institute of Technology), Asami Nakai (Gifu University)
STIFFNESS PREDICTION IN GREEN COMPOSITES USING HOMOGENIZATION TECHNIQUES
Asghar Arab (Universitat des Saarlandes), Markus Stommel (Universitat des Saarlandes), Lennart Wallström (Lulea University of Technology), Janis Varna (Lulea University of Technology)

NANOCRYSTALLINE CELLULOSE-LIGNIN CARBON NANOFIBRES
Yingjie Li (University of British Columbia), Li-ting Lin (University of British Columbia), John F. Kadla (University of British Columbia), Frank Ko (University of British Columbia)

SURFACE ANALYSES OF BASALT FIBRES: TAILORING THE INTERPHASE OF GREEN FIBRE REINFORCED COMPOSITES
Theresa Foerster (Leibniz Institute of Polymer Research Dresden), Edith Maeder (Leibniz Institute of Polymer Research Dresden), David Jesson (University of Surrey), John F. Watts (University of Surrey)

PREPARATION AND PROPERTIES OF PLANT FIBER MODIFIED PHENOLIC FOAM COMPOSITE MATERIALS
Zhong-jia Yang (Beihang University), Yizhuo Gu (Beihang University), Xuelin Tan (Beihang University), Min Li (Beihang University), Zuoguang Zhang (Beijing University of Aeronautics and Astronautics)

WETTABILITY EVALUATION OF FLAX AND PAPER FIBERS USING THE SESSILE DROP TECHNIQUE.
Gilbert Lebrun (University of Quebec at Trois-Rivieres)

MECHANICAL PROPERTY OF PAPER REINFORCED THERMOSETTING RESIN COMPOSITE
Takanori Kitamura, Kanta Ito, Suguru Teramura (Daiwa Itagami Co. Ltd.), Ryo Marui (Marui Textile Machinery Co.Ltd.), Zhiyuan Zhang, Hiroyuki Hamada (Kyoto Institute of Technology), Yuqiu Yang (Donghua University)

UTILIZATION OF A THREE-STEP THERMO-MECHANICAL TREATMENT TO MODIFY WOOD PROPERTIES
Rébła Gonçalves Vasconcelos (Universidade de Brasilia), Claudio Henrique Del menezzi (Universidade de Brasilia)

FABRICATION AND MECHANICAL PROPERTIES OF UNIDIRECTIONAL COMPOSITE OF SILK FIBER/PLA BY COMPRESSION MOLDING
Anin Memon (Kyoto Institute of Technology), Asami Nakai (Gifu University)

HIGH PERFORMANCE SELF-REINFORCED POLYLACTIC ACID BIOCOMPOSITES WITH DEGRADATION SENSING
Fang Mai (Queen Mary and Westfield College, University of London), Emiliano Bilotti (Queen Mary and Westfield College, University of London), Ton Peijs (Queen Mary and Westfield College, University of London)
THERMAL BEHAVIOR OF SUGARCANE BAGASSE/PP COMPOSITES USING LIGNIN AS COMPATIBILIZER AGENT
Patrícia Câmara Miléo (Universidade de Sao Paulo)

HIERARCHICAL REGENERATED CELLULOSE FIBRE REINFORCED POLYHYDROXYBUTARATE
Alexander Bismarck (Imperial College of Science), Siti rosminah Shamsuddin (Imperial College of Science), Koon-yang Lee (Imperial College of Science)

MOISTURE ABSORPTION OF GLUTEN POLYMERS AND FLAX/GLUTEN COMPOSITES
Nhan Vo hong, Aart Willem Van vuu re, Peter Van puyvelde, Ignaas Verpoest (Katholieke Universiteit Leuven)

THE EFFECT OF FIBER MICROSTRUCTURE AND FIBER-MATRIX INTERFACIAL ADHESION ON MECHANICAL PROPERTIES OF COIR FIBRE COMPOSITES
Le Quan Ngoc Tran, Carlos Anibal Fuentes, Christine Dupont-gillain, Aart Willem Van vuure, Ignaas Verpoest (Katholieke Universiteit Leuven)
NON DESTRUCTIVE EVALUATION

DEVELOPMENT AND TESTING OF A HYBRIDE ACTIVE – PASSIVE ACOUSTIC SHM SYSTEM FOR IMPACT DAMAGE DETECTION IN HONEYCOMB AIRCRAFT STRUCTURES
Michael Scheerer (Aerospace & Advanced Composites GmbH), Daniel Lager (Aerospace & Advanced Composites GmbH), Firat Goeral (Aerospace & Advanced Composites GmbH)

ON THE ANISOTROPIC ATTENUATION BEHAVIOR OF THE FLEXURE MODE OF CARBON FIBER COMPOSITES
Brian Michael Burks (National Institute of Standards and Technology (NIST)), Marvin A Hamstad (University of Denver)

APPROACHES FOR AE MONITORING OF DELAMINATION ONSET AND GROWTH IN COMPOSITES
Ahmed Maslouhi (University of Sherbrooke), Silversides Ian (University of Sherbrooke), Laplante Gabriel (University of Moncton)

INSPECTION OF COMPOSITE COMPONENTS BY PURE GUIDED WAVE BASED ULTRASONIC IMAGING WITH ONE PHASED ARRAY PROBE.
Michel Castaings (Univerisite Bordeaux I), Alban Leleux (Univerisite Bordeaux I), Philippe Micheau (University of Sherbrooke)

EXAMINATION OF DRAPE-INDUCED DEFECTS USING COMPUTER X-RAY TOMOGRAPHY
James Stephen Lightfoot (University of Bristol), Kevin Potter (University of Bristol), Michael R Wisnom (University of Bristol)

THE INFLUENCE OF DELAMINATION OPENING IN CARBON FIBRE/EPOXY LAMINATES ON SIGNAL CHARACTERISTICS OF PULSE PHASE THERMOGRAPHY
Henrik Schmutzler, Narumichi Sato, Alejandro Garcia, Martin Schuett, Hans Wittich, Hermann Rohling, Karl Schulte (Technische Universitat Hamburg-Harburg) Masaaki Nishika, Masaki Hojo (Kyoto University)

RESISTIVE HEATING STRUCTURAL DAMAGE DETECTION IN NANOCOMPOSITES
Roberto Guzman de villoria (IMDEA Materials), Vanesa Martinez (IMDEA Materials)

PLY WAVINESS DETECTION AND MESH GENERATION FOR COMPOSITES BASED ON X-RAY COMPUTED TOMOGRAPHY
Yuri G Nikishkov (University of Texas at Arlington), Gennadiy Nikishkov (University of Aizu), Andrew Makeev (University of Texas at Arlington)
A STUDY ON MULTI-AXIAL FORCE MEASUREMENT OF POLYMER SKINS USING FBG SENSOR
Oh min Kwon (Andong National University), Hui yun Hwang (Andong National University), Sang kyun Hwang (Andong National University), Hyun ju Oh (Chonbuk National University), Seong su Kim (Chonbuk National University)

A STUDY ON THE TACTILE SENSING SYSTEM USING PIEZOELECTRIC FIBER
Sang kyun Hwang (Andong National University), Hui yun Hwang (Andong National University), Oh min Kwon (Andong National University), Seong su Kim (Chonbuk National University)

GENERELIZED COMPLIANCE, A NEW TECHNIQUE FOR PROGRESSIVE DAMAGE ANALYSIS IN COMPOSITE MATERIALS
Kenneth L Reifsnider (University of South Carolina - Columbia), Md Rassel Raihan (University of South Carolina - Columbia)

STRUCTURAL METHODS FOR COMPOSITES IN THE PRESENCE OF POROSITY/VOIDS
Guillaume Seon (University of Texas at Arlington), Yuri G Nikishkov (University of Texas at Arlington), Andrew Makeev (University of Texas at Arlington)
OUT OF AUTOCLAVE MANUFACTURING

INFLUENCE OF AIR RELEASE AGENT ADDITIVE ON VACUUM BAG CURABLE PREPREG
Baoyan Zhang (China Aviation Industry Corp)

INVESTIGATION OF THE PROPERTIES OF CARBON FIBER / EPOXY COMPOSITE LAMINATES FABRICATED WITH CO-RFI PROCESS
Xuqiang Ma (Beihang University), Yizhuo Gu (Beihang University), Min Li (Beihang University), Yanxia Li (Beijing University of Aeronautics and Astronautics), Zuoguang Zhang (Beijing University of Aeronautics and Astronautics)

VACUUM BAG ONLY MANUFACTURING OF HONEYCOMB SANDWICH PANELS
James Kratz (McGill University), Pascal Hubert (McGill University)

EFFECT OF LAYUP AND PLY MORPHOLOGY ON VOID FORMATION IN OUT-OF-AUTOCLAVE PREPREGS
Timotei Centea (McGill University), Mathieu Preau (McGill University), Pascal Hubert (McGill University)

MESO-SCALE MULTIPHYSIC MODELLING OF THE WET FILAMENT WINDING PROCESS
Hugo Faria (INEGI - Institute of Mechanical Engineering and Industrial Management), Francisco Manuel Pires (University of Porto), António Torres Marques (University of Porto)
PHYSICAL PROPERTIES

THERMO-MECHANICAL INVESTIGATION OF ELECTROFORMED NICKEL-CARBON FIBERS COMPOSITES
Sabah S Abdulnoor (University of Technology)

FIBER ORIENTATION ASSESSMENT IN CARBON FIBER REINFORCED COMPOSITES USING INFRARED THERMOGRAPHY
Henrique Coelho Fernandes (Laval University), Xavier Maldague (Laval University)

TEXTURE SHARP TRANSITION MECHANISM OF PYROCARBON BASED ON MONTE CARLO
Qingbo Huang (Shanghai University), Ruicheng Bai (Shanghai University), Aijun Li (Shanghai University), Hong Li (Shanghai University), Musu Ren (Shanghai University), Jinliang Sun (Shanghai University)

NUMBERICAL AND EXPERIMENTAL ANALYSIS FOR MODE I FRACTURE OF Ti/APC-2 HYBRID COMPOSITE LAMINATES
Lei Pan (Nanjing University of Aeronautics and Astronautics)
PREFORMS

PREDICTION METHOD OF INTERNAL STRUCTURE FOR DESIGNING BRAIDED COMPOSITES WITH THERMOPLASTIC RESIN
Takeshi Saito (Kyoto Institute of Technology), Ryo Morinaga (Kyoto Institute of Technology), Masaru Imamura (Kyoto Institute of Technology), Asami Nakai (Gifu University), Akio Ohtani (Gifu University)

PREDICTION METHOD OF INTERNAL STRUCTURE FOR DESIGNING BRAIDED COMPOSITES WITH THERMOSET RESIN
Masaru Imamura (Kyoto Institute of Technology), Ryo Morinaga (Kyoto Institute of Technology), Akio Ohtani (Gifu University), Asami Nakai (Gifu University)

MECHANICAL PROPERTIES OF 3D WOVEN COMPOSITES WITH LARGE REPEAT UNIT CELLS
Edward Archer, Alistair McIlhagger
PROCESSING

DEVELOPMENT OF FIBER TOW SPREADING SYSTEM AND ITS APPLICATION FOR THIN FIBER REINFORCED MATERIALS
Tohru Morii (Shonan Institute of Technology), Masaaki Shimaba (Shonan Institute of Technology), Masahiro Mogi (ITO Yacht Sails LTD)

LASER WELDING MODELLING FOR THERMOPLASTIC COMPOSITE AND DEVELOPMENT OF AN ADAPTED MATERIAL CHARACTERIZATION METHOD
Mylene Deleglise (Ecole des Mines de Douai), Benoit Cosson (Ecole des Mines de Douai)

NUMERICAL AND EXPERIMENTAL INVESTIGATIONS OF CONTINUOUS FIBRE REINFORCEMENTS AND THERMOPLASTIC RESIN (CFRTP) FORMING
Peng Wang (Ecole Nationale Superieure des Arts et Industries Textiles), Nahiene Hamila (Institut National des Sciences Appliquees de Lyon), Philippe Boisse (Institut National des Sciences Appliquees de Lyon)

SOLID MECHANICS-BASED SIMULATION OF COMPOSITE FORMING WITH STRESS RELAXATION IN THE DRY FABRIC REINFORCEMENT AND RESIN CURING
Mojtaba Komeili (University of British Columbia), Abbas Milani (University of British Columbia)

INFLUENCE OF MATERIAL FLOW IN COMPRESSION MOLDING ON MECHANICAL PROPERTIES OF DISCONTINUOUS CF/PP
Nozomi Mitsui (The University of Tokyo), Kazuro Kageyama (Tokyo University), Jun Takahashi (The University of Tokyo), Kiyoshi Uzawa (Kanazawa Institute of Technology), Isamu Osawa (Tokyo University)

STUDY ON APPLICATION OF ABRASIVE WATER JET CUTTING TO THICK CFRP PLATE
Hirohito Hira (Daido University)

INFLUENCE OF MILL GEOMETRY ON CUTTING FORCE AND SURFACE MORPHOLOGY OF MULTIDIRECTIONAL CFRP
Yan Chen (Nanjing University of Aeronautics and Astronautics), Yucan Fu (Nanjing University of Aeronautics and Astronautics), Honghua Su (Nanjing University of Aeronautics and Astronautics), Shengchao Han (Nanjing University of Aeronautics and Astronautics)

ULTRASONIC WELDING OF THERMOPLASTIC COMPOSITE. MODELLING THE HEATING PHENOMENA
Steven Le corre (Universite de Nantes), Arthur Levy (McGill University), Irene Fernandez villegas (Delft University of Technology)

Organized by Canadian Association for Composite Structures and Materials (CACSMA)
UNDERSTANDING THE LAMINATION PROCESS TO IMPROVE COMPOSITE MANUFACTURING
Michael Philip Elkington (University of Bristol), Carwyn Ward (University of Bristol), Anna Chatzimichali (University of Bristol), Leo Dominic Bloom (University of Bristol), Kevin Potter (University of Bristol)

ON PREPREG PROPERTIES AND MANUFACTURABILITY
Leo Dominic Bloom (University of Bristol), Carwyn Ward (University of Bristol), Anna Chatzimichali (University of Bristol), Kevin Potter (University of Bristol), Michael Philip Elkington (University of Bristol)

CO2-LASER-ASSISTED PRODUCTION OF HYBRID FIBER-REINFORCED THERMOPLASTIC COMPOSITES
Christian Brecher (Fraunhofer Institute for Production Technology), Michael Emonts (Fraunhofer Institute for Production Technology), Joffrey Stimpfl (Fraunhofer Institute for Production Technology)

THE IMPACT OF PROCESS PARAMETERS ON THE RESIDUAL STRESSES AND DISTORTIONS IN PULTRUSION
Ismet Baran (Technical University of Denmark), Jesper Henri Hattel (Technical University of Denmark), Cem C Tutum (Technical University of Denmark)

INFLUENCE OF CUTTING PARAMETERS AND WEAR IN DRILLING OF 3D WOVEN CARBON/EPOXY COMPOSITES
Nicolas Cadorin (Institut Clément Ader), Redouane Zitoune (Institut Clément Ader), Francis Collombet (Institut Clément Ader), Bruno Castanié (Institut Clément Ader), Mathias Seve (Snecma)

NANOSTRUCTURE GRADIENTS IN INJECTION-MOLDED PP/MMT COMPOSITES STUDIED BY MICROBEAM SAXS
Norbert Stribeck (University of Hamburg), Konrad Schneider (Institut für Polymerforschung), Ahmad Zeinolebadi (University of Hamburg), Xuke Li (University of Hamburg), Zina Vuluga (Institute ICECHIM), Stephan Volkher Roth (HASYLAB at DESY)

MANUFACTURING OF HYBRID STRUCTURES BY PREPREG PRESS TECHNOLOGY
Christian Lauter (Universitat Paderborn), Tim Krooss (Universitat Paderborn), Thomas Troester (Universitat Paderborn)

A CASE STUDY ON DIMENSIONAL CHANGE OF GLASS FIBRE REINFORCED POLYMERS AFTER DEMOULDING: A COMBINED EFFECT OF CURE PROGRESSION AND THERMO-VISCOELASTIC BEHAVIOUR
Maziar Shah mohammadi, Lucie Solnickova, Bryn James Crawford, Mojtaba Komeili, Abbas Milani

PROCESS INDUCED WARPAGE IN LAMINATED SHELLS
Jos Sinke (Delft University of Technology)
EFFECT OF VACUUM PRESSURE DURING CURING OF CARBON FIBRE LAMINATES ON THEIR MACHINABILITY
Pierre Coulon (École de technologie supérieure - Université du Québec), Martine Dube (École de technologie supérieure - Université du Québec), Jean-françois Chatelain (École de technologie supérieure - Université du Québec)

ALIGNED SHORT FIBRE COMPOSITES WITH HIGH PERFORMANCE
Hana Yu (University of Bristol), Kevin Potter (University of Bristol), Michael R Wisnom (University of Bristol)

COATING POLYMER MATRIX COMPOSITE TOOLING USING PULSED GAS-DYNAMIC SPRAYING
Simon Gosselin (University of Ottawa), Francois Robitaille (University of Ottawa), Mohammed Yandouzi (University of Ottawa), Bertrand Jodoin (University of Ottawa)

DEVELOPMENT AND PROCESSING OF INTERMEDIATE MATERIAL FOR CONTINUOUS FIBER REINFORCED THERMOPLASTIC COMPOSITES
Kazufumi Nakazawa (Kyoto Institute of Technology), Toshihiro Motochika (Kyoto Institute of Technology), Mitsurou Takagi (Kaji Group Co. Ltd), Akio Ohtani (Gifu University), Asami Nakai (Gifu University)

EVALUATION OF THE FRACTURE TOUGHNESS OF COMPOSITE/ADHESIVE INTERFACE APPLIED BY IN-MOLD SURFACE MODIFICATION UNDER MODE II LOADING
Yukimoto Yoshikazu (Tokyo University of Science)

A NOVEL COMPOSITION FOR REMOVABLE INNER TOOLING OF HOLLOW COMPOSITE STRUCTURES
David Schultheiss (Technische Universitat Munchen), Cornelia Becker (Technische Universitat Munchen), Swen Zaremba (Technische Universitat Munchen), Christoph Ebel (Technische Universitat Munchen), Klaus Drechsler (Technische Universitat Munchen)

CURE MONITORING OF THICK CFRP LAMINATE BY OPTICAL-FIBER-BASED DISTRIBUTED SENSOR
Yusaku Ito (Tokyo University), Takato Obo (Tokyo University), Shu Minakuchi (The University of Tokyo), Nobuo Takeda (The University of Tokyo)

COMPARISON OF MECHANICAL PROPERTIES BETWEEN FRTP USING IN-SITU POLYMERIZABLE PA6 AND FRP USING FIRST CURABLE EPOXY RESIN
Kazuhiro Sakata (Nihon University), Goich Ben (Nihon University), Hirofumi Nishida

CURE MONITORING OF CFRP: ELECTRICAL IMPEDANCE ANALYSIS
Philippe Marguerès (Institut Clément Ader), Philippe A Olivier (Institut Clément Ader), Thierry Camps, Sonia Sassi (Institut Clément Ader), Mahamadou Mounkaila
REINFORCEMENT OF PARTIALLY CURED AEROSPACE STRUCTURES WITH B-STAGED PATCHES
Julia Studer (Fachhochschule Nordwestschweiz), Kunal Masania (Fachhochschule Nordwestschweiz), Clemens Dransfeld (University of Applied Sciences and Arts Northwestern Switzerland), Nicolas Eguemann (Cross Composite AG)

EFFECT OF FIBER VOLUME FRACTION AND PROCESS ORIENTATION ON MODULES OF POLYETHYLENE GLASS FIBER COMPOSITE FIBER
Amir Khorsand (University of Manitoba), Jayaraman Raghvan (University of Manitoba)

CHARACTERIZING VISCOELASTIC PROPERTIES OF CURING EPOXY FROM PRE-GELATION TO FULL CURE
Ryan J Thorpe (Convergent Manufacturing Technologies Inc.), Anoush Poursartip (University of British Columbia)

CURE MONITORING OF 3D ANGLE INTERLOCK WOVEN CARBON FIBRE COMPOSITES
AT. McIlhagger, J. Broderick, E. Archer (University of Ulster)

HEAT RESISTANCE PROPERTIES OF FRTP COMPOSED OF IN-SITU PORIMERIZATION PA6 AND CF AND GF FABRICS
Akiko Hirabayashi (Nihon University), Goich Ben (Nihon University), Hikaru Ozeki

HOLLOW STRUCTURAL PRODUCT OF CONTINUOUS FIBER REINFORCED THERMOPLASTIC COMPOSITES BY HIGH CYCLE MOLDING
Koichi Bun (Kyoto Institute of Technology), Toshihiro Motochika (Kyoto Institute of Technology), Asami Nakai (Gifu University), Hitoshi Kitamura (Toyobo Co. Ltd.), Hidetoshi Sonoda (Toyobo Co. Ltd.), Satoshi Nagoh (Toyobo Co., Ltd.)

TOOL MATERIAL EFFECTS ON PROCESS INDUCED DEFORMATION OF COMPOSITE SPAR STRUCTURES
Takayuki Shimizu (Mitsubishi Heavy Industries, Ltd.), Toshio Abe (Mitsubishi Heavy Industries, Ltd.)

NUMERICAL APPLICATIONS AND VERIFICATION OF AN INTEGRATED FLOW-STRESS MODEL IN PROCESSING OF THERMOSET COMPOSITES
Mehdi Haghshenas (University of British Columbia), Reza Vaziri (University of British Columbia), Anoush Poursartip (University of British Columbia)

MODELING AND CHARACTERIZATION OF THERMOPLASTIC COMPOSITES PEEK/CARBON
Kouwonou Kodjo Dodji (Ecole de Technologie Superieure), Tan Pham (École de technologie supérieure - Université du Québec), Gilbert Lebrun (University of Quebec at Trois-Rivieres)
PROCESSING – POSTER

FABRICATION AND MECHANICAL PROPERTIES OF SELF-REINFORCED POLYESTER DOUBLE COVERED UNCOMMINGLED YARN COMPOSITES
Chang-mou Wu

DSC INVESTIGATION OF THE INFLUENCE OF CARBON CONTENT ON PEEK CRYSTALLISATION
Olivier De almeida, Emeline Bessard, Gérard Bernhart

In situ monitoring of liquid composite processing
Fabien Cara

TOWARDS COST-EFFECTIVE TEXTILE CHARACTERISATION: KEY PARAMETERS IN MATERIAL CHARACTERISATION
Andrew Walbranen, Hannes Körber

AUTOCLAVE FORMATION TECHNOLOGY FOR CFRTP BRAIDED T-SHAPED PIPE
Toshikazu Uchida, Koichi Bun, Akio Ohtani, Asami Nakai

RELATIONSHIPS BETWEEN DEGREE OF SKILL, DIMENSION STABILITY AND MECHANICAL PROPERTIES OF COMPOSITE STRUCTURE IN HAND LAY-UP METHOD

PROCESS ANALYSIS OF HAND LAY UP METHOD BY VARIOUS EXPERIENCE PERSONS

CURING KINETIC AND PROPERTIES OF MEHHPA /HYDANTOIN EPOXY RESIN SYSTEM
Ling Li

CURE KINETIC OF ADHESIVE FOR RAPID REPAIR BY NON-ISOTHERMAL METHOD
Ying Chun Li, Mengyuan Wang

A STUDY OF QUADRIAXIAL AND TRIAXIAL COMPOSITE TUBES DEVELOPED BY BRAID-WINDING
Sree Shankhachur Roy, Prasad Potluri, Constantinos Soutis

SMALL LEAKAGE BIG PROBLEM - AUTOMATED LEAKAGE DETECTION OF VACUUM SETUPS IN CFRP PRODUCTION
Jens Boelke
SECONDARY FORMING OF HYBRID REINFORCEMENTS METAL MATRIX COMPOSITE
Hyun ho Kim, Chung-gil Kang

POROSITY ELIMINATION RELATED FROM THE VOLATILES FROM THE POLYMERIZATION IN RTM PROCESSING
Cédric Pupin

THE COMPRESSION RESIN TRANSFER MOULDING PROCESS FOR EFFICIENT COMPOSITE MANUFACTURE
Kunal Masania, Clemens Dransfeld, Benjamin Bachmann

THREE-DIMENSIONAL ULTRASONIC CUTTING OF RTM PREFORMS – A PART OF A HIGH VOLUME PRODUCTION SYSTEM
Andreas Björnsson, Kerstin Johansen, Dan Eric Alexandersson

INFLUENCE OF THE IMPREGNATION RATE AND COMPRESSION MOLDING CONDITIONS
Kenichi Hasegawa, Masachika Yamane Suzuki, Jun Takahashi, Isamu Ohsawa

TIMESAVING QUALITY ASSURANCE FOR THE AUTOMATED PREFORMING PROCESS IN THE AUTOMOBILE SERIAL PRODUCTION OF CARBON COMPOSITES
Daniel Brabandt, Gisela Lanza, Patrick Bingemann

UV CURABLE COATING FOR FLAME-RETARDANT TEXTILE FINISHING
Nantana Jiratumnukul, Watcharinporn Promsook

SOLVENT-CAST DIRECT-WRITE MICROFABRICATION OF THERMOPLASTIC-BASED NANOCOMPOSITE STRUCTURES
Shuang-zhuang Guo, Marie-claude Heuzey, Daniel Therriault

THE EFFECT OF THERMAL RESISTANCE ON THE CURING PROCESS OF A COMPOSITE PART
Zhongmin Xue, Ltd, Qizhong Huang, Mingfa Ren, Hu Zhaohui, Gao Hongcheng
REPAIRS AND MACHINING

HEALING CARBON FIBER/POLYMER COMPOSITES BY RESISTIVE HEATING
Lifeng Hao (Harbin Institute of Technology), Chengqin Dai (Harbin Institute of Technology), Hongtao Zhang (Harbin Institute of Technology), Rongguo Wang (Harbin Institute of Technology), Sichuan Li, Xianglong Huang, Fanjun Meng, Zaiwen Lin

EXPERIMENTAL INVESTIGATION OF SCARF JOINTS WITH MISMATCHED ADHERENDS
Jun yi Goh (Royal Melbourne Institute of Technology), Chun H Wang (RMIT University), Adrian Orifici (Royal Melbourne Institute of Technology)

DETECTION OF CONTAMINANTS ON CFRP SURFACES - A NECESSITY FOR COMPOSITE REPAIR?
Georg christian Wachinger (EADS Innovation Works)

ON THE EFFECT OF MQL PARAMETERS ON MACHINING QUALITY OF CFRP
Helmi Attia (National Research Council Canada)

EXPERIMENTAL OPTIMIZATION OF ORBITAL DRILLING OF WOVEN CARBON FIBER REINFORCED EPOXY LAMINATES
Helmi Attia (National Research Council Canada), Ahmad Sadek (McGill University)

MATERIAL REMOVAL MECHANISM OF CARBON/EPOXY COMPOSITES IN SINGLE DIAMOND GRAIN MACHINING
Helmi Attia (National Research Council Canada), Ireen Sultana (McGill University), Zhongde Shi (National Research Council of Canada NRC), Vincent Thomson (McGill University)
STEPHEN TSAI AWARD

INNOVATIVE GLASS-CERAMIC MATRIX COMPOSITES: PROCESSING AND CHARACTERIZATION
Anais Farrugia (Institut Clément Ader), Gilles Dusserre (Institut Clément Ader), Thierry Cutard (Institut Clément Ader), Magali Rollin, Stephanie Fouquet (Herakles)

POLY (VINYL ALCOHOL)/GRAPHENE OXIDE FIBER PREPARED BY GEL PROCESS
Seira Morimune (Kobe University)

A NEW MULTI-PHYSICS MOLECULAR DYNAMICS FINITE ELEMENT METHOD FOR DESIGNING GRAPHENE BASED NANO-STRUCTURES
Andre Antoine Renaud Wilmes (Imperial College of Science), Silvestre T Pinho (Imperial College of Science)

CONTRIBUTIONS TO THE PROCESS MODELLING OF RESIN INFUSION UNDER FLEXIBLE TOOLING (RIFT) MANUFACTURING FOR COMPOSITE AEROSTRUCTURES
Robert Samuel Pierce (Monash University), Brian George Falzon (Queen’s University Belfast), Mark Thompson (Monash University), Romain Boman (Universite de Liege)

GAS PERMEABILITY OF PARTIALLY SATURATED FABRICS
Thomas Anthony Cender (University of Delaware), Pavel Simacek (University of Delaware), Suresh G Advani (University of Delaware)

MODELING ELASTIC PROPERTIES OF RANDOMLY ORIENTED FIBER COMPOSITES
Hadi Moussaddy (Ecole Polytechnique de Montreal), Daniel Therriault (Ecole Polytechnique de Montreal), Martin Lévesque (Ecole Polytechnique de Montreal)
STIMULUS RESPONSIVE POLYMER & COMPOSITES SYMPOSIUM

WATER-INDUCED SHAPE MEMORY EFFECT OF EPOXY-BASED SHAPE MEMORY POLYMER
Wenxin Wang (Harbin Institute of Technology), Haibao Lu (Harbin Institute of Technology), Yanju Liu (Harbin Institute of Technology), Jinsong Leng (Harbin Institute of Technology)

SMART COMPOSITE SURFACE WITH IN-SITU TUNABLE ADHESION BEHAVIOR
Tae-hyung Kang (Seoul National University), Seok bin Hong (Seoul National University), Tae-jun Ko (Seoul National University), Kyu hwan Oh (Seoul National University), Woong-ryeol Yu (Seoul National University)

THERMO-MECHANICAL PERFORMANCE AND FATIGUE CYCLING OF NOVEL BISMALEIMIDE-BASED SHAPE MEMORY POLYMER RESIN AND COMPOSITES
Gyaneshwar P. Tandon (University of Dayton), Thao T Gibson (University of Dayton), Richard Coomer (Southwestern Ohio Council for Higher Education), Jeff W Baur (Air Force Research Laboratory)

TRANSMISSION ELECTRON MICROSCOPY CHARACTERIZATION OF EFFECT OF GRAPHITE IN ZRB2-BASED COMPOSITES
Liyuan Qin, Songhe Meng, Weihua Xie, Hua Jin, Chenghai Xu (Harbin Institute of Technology)

STIMULUS RESPONSIVE POLYMER AND MULTIFUNCTIONAL COMPOSITES: CHALLENGES AND PROSPECTS
Keynote: Jinsong Leng (Harbin Institute of Technology)

NANOPAPER ENABLED SHAPE-MEMORY POLYMER COMPOSITE FOR ELECTRICAL ACTUATION
Haibao Lu (Harbin Institute of Technology)

DESIGN AND CHARACTERIZATION OF FILAMENT-WOUND COMPOSITE SHELLS REINFORCED BY GRID
Zaiwen Lin (Harbin Institute of Technology)
STIMULUS RESPONSIVE POLYMER
& COMPOSITES & INTERFACES - POSTER

BENDING DEFORMATION LIMITS FOR CORRUGATED MORPHING SKINS
Andre Schmitz, Peter Horst

EFFECT OF SIZING ON THE INTERFACE PROPERTIES OF CARBON FIBER/BMI UNDER DIFFERENT PROCESSING TEMPERATURE
Qing Wu, Min Li, Mingming Zhu, Yizhuo Gu, Yanxia Li, Zuoguang Zhang

EXPERIMENTAL EVIDENCE OF THE INTERFACE/INTERPHASE FORMATION BETWEEN POWDER COATING AND COMPOSITE MATERIAL
Ahmad Fahs, Aurore Lafabrier

THE PERFORMANCE OF THE IONIC LIQUID-CONTAINING ELECTROACTIVE POLYMER ACTUATORS UNDER AMBIENT AIR CONDITIONS
Indrek Must, Alvo Aabloo, Inga Põldsalu, Friedrich Kaasik, Urmas Johanson, Andres Punning

INFLUENCE OF THERMAL TREATMENT ON PROPERTIES OF THIN-FILM COMPOSITES CDS–PBS OBTAINED AT THE CDS(SOL)/PB2+(AQUA) INTERFACE
Larisa Maskaeva, Natalia Forostyanaya, Zinaida Smirnova, Vyacheslav Markov

OXIDATION OF ZIRCONIUM DIBORIDE-SILICON CARBIDE CERAMIC COMPOSITES IN DISSOCIATED OXYGEN
Hua Jin, Songhe Meng, Weihua Xie, Chenghai Xu, Liyuan Qin

CONSTITUTIVE THEORY OF YEOH TYPE ELASTIC DIELECTRICS POLYMER
Liwu Liu, Xinghuan Qi, Yinzi Zhao, Yanju Liu

THERMAL DECOMPOSITION OF PBO FIBER AND HIGH THERMAL MECHANICAL PROPERTIES OF PBO COMPOSITE MATERIALS
Liping Bian, Jiayu Xiao, Jingcheng Zeng, Suli Xing, Changping Yin, Jinshui Yang
STRUCTURAL HEALTH MONITORING

DETECTION OF DEFECTS IN COMPOSITE STRUCTURES WITH 3D LASER VIBROMETER
Patrick Peres (ASTRIUM Space Transportation), David Barnoncel (ASTRIUM Space Transportation), Wieslaw Jerzy Staszewski (Technical University of Cracow)

IMPACT LOCALIZATION IN ANISOTROPIC COMPOSITE PLATES INTRUMENTED WITH A NETWORK OF PIEZOELECTRIC SENSORS
Andre luiz De aguiar Ribeiro (Universidade Estadual de Campinas), Carlos Alberto Cimini Jr (Universidade Federal de Minas Gerais), Niederauer Mastelari (Universidade Estadual de Campinas)

RELEVANCE OF ENVIRONMENTAL INFLUENCES FOR LAMB WAVE BASED SHM WITH PIEZOELECTRIC ELEMENTS
Konstantin Jonas Schubert (Faserinstitut Bremen e.V.), Oliver Focke (Faserinstitut Bremen e.V.), Axel Siegfried Herrmann (Universitat Bremen)

STRUCTURAL HEALTH MONITORING IN COMPOSITE STRUCTURES USING EMBEDDED WIRE SENSORS
Pierre Mertiny (University of Alberta), Martin Ocker (University of Alberta), Christian Hansen (Universitat Hannover), Cagri Ayranci (University of Alberta)
STRUCTURAL OPTIMIZATION

EFFECTS OF VISCOELASTICITY ON THE DEPLOYMENT OF BISTABLE TAPE SPRINGS
Alex W Brinkmeyer (University of Bristol), Sergio Pellegrino (California Institute of Technology), Paul M Weaver (University of Bristol), Matthew Santer (Imperial College of Science)

OPTIMAL DESIGN OF A COMPOSITE STRUCTURE RELEVANT TO LAMINATE DESIGN GUIDELINES
Alexis Lasseigne (ONERA), François-xavier Irisarri (ONERA), Rodolphe Le riche (Ecole Nationale Superieure des Mines de St-Etienne)

COMPARISON OF RESPONSE OF GROOVED COMPOSITES TO LOADING VIA SPHERICAL AND CYLINDRICAL INDENTERS
Holly K Jeffrey (Massachusetts Institute of Technology), Paul A Lagace (Massachusetts Institute of Technology)

OPTIMIZED FIBER STEERING AND LAYER STACKING FOR ELASTICALLY TAILORED, DAMAGE TOLERANT LAMINATES
Wenli Liu (University of Bath), Richard Butler (University of Bath), Andrew Thomas Rhead (University of Bath)

THE DESIGN OF A PRE-WARPED BUS DOOR FOR LOW COST COMPOSITE MANUFACTURING
Zhi-cheng Yu (Composites Innovation Centre)

OPTIMIZATION OF VARIABLE ANGLE TOW PLATES WITH ONE FREE EDGE USING LAMINATION PARAMETERS
Zhangming Wu (University of Bristol), Gangadharan Raju (University of Bristol), Paul M Weaver (University of Bristol)

ACCOUNTING FOR MANUFACTURABILITY CONSTRAINTS IN THE OPTIMISATION OF COMPOSITE STRUCTURES
Vinay Madhavan (Cenaero), Philippe Martiny (Cenaero)

STACKING SEQUENCE TABLES FOR LAMINATE BLENDING OPTIMIZATION
François-xavier Irisarri (ONERA), Alexis Lasseigne (ONERA), François-henri Leroy (ONERA)
STRUCTURAL RESPONSE & DESIGN

UNEXPECTED TWISTING CURVATURE GENERATION OF BISTABLE CFRP LAMINATE DUE TO THE UNCERTAINTY OF LAY-UP SEQUENCE AND NEGATIVE INITIAL CURVATURE
Junghyun Ryu (Seoul National University), Jong-gu Lee (Seoul National University), Seung-won Kim (Seoul National University), Kyu-jin Cho (Seoul National University), Maenghyo Cho (Seoul National University)

POST-BUCKLING OF DYNAMICALLY LOADED COMPOSITE PANELS USING A REDUCED ORDER MODEL
Eelco Jansen (Universitat Hannover), Tanvir Rahman (TNO DIANA BV), Alexander Meurer (Universitat Hannover), Raimund Rolfes (Universitat Hannover)

A COMPARISON OF CURRENT DESIGN CONCEPTS OF FUSELAGE PANELS UNDER TYPICAL LOAD CONDITIONS
Xiao Cai (Concordia University), Franck Dervault (Borland Software Corporation), Suong Hoa (Concordia University), Ramin Sedaghati (Concordia University)

EXTENDED FINITE ELEMENT METHOD MODELING OF CRACK PATHS IN PARTICLE REINFORCED COMPOSITES
Li MA, Zhi-Yong WANG, Lin-Zhi WU (Harbin Institute of Technology)

NEW DEVELOPMENTS IN STRUCTURE/PROPERTY RELATIONSHIPS
Wendy Wenjun Tian (CSIRO), Buu Dao (CSIRO), Russell John Varley (CSIRO)

OPTIMUM DESIGN OF LAMINATED PLATE WITH DISCRETE PLY ANGLES BASED ON GSFP METHOD
Shutian Liu (Dalian University of Technology)

ROTORDYNAMICS OF TAPERED COMPOSITE DRIVESHAFT BASED ON A LAGRANGIAN FINITE ELEMENT
Majed Almuslmani (Concordia University), Rajamohan Ganesan (Concordia University)

UNBALANCED AND SYMMETRIC LAMINATES: NEW PERSPECTIVES ON A LESS WELL-KNOWN DESIGN RULE.
Christopher B. York (University of Glasgow)

DAMAGE ACCUMULATION IN A FIBER REINFORCED COMPOSITE FOR SPACE APPLICATIONS
Jihane Ajaja (McGill University), Francois Barthelat (McGill University)
RESISTANCE OF NICKEL-COATED THERMALLY CYCLED COMPOSITES TO LUNAR DUST ABRASION
Marie-josée Potvin (Agence spatiale canadienne Canadian Space Agency), Francis Martin (Agence spatiale canadienne Canadian Space Agency)

EFFECT OF EXTREME TEMPERATURE CYCLES ON DAMAGE IN COMPOSITE LAMINATES
Marie-laure Dano (Laval University), Francis Martin (Agence spatiale canadienne Canadian Space Agency), Marie-josée Potvin (Agence spatiale canadienne Canadian Space Agency), Mathilde Jean-st-laurent (Laval University)

TENSILE STRENGTH MODELING OF GLASS FIBER-POLYMER COMPOSITES AND SANDWICH MATERIALS IN FIRE
Stefanie Feih, Aslina Anjang, Venkata Chevali, Everson Kandare, Adrian Mouritz (Royal Melbourne Institute of Technology)

STRUCTURAL OPTIMISATION OF DISCONTINUOUS FIBRE COMPOSITES
Connie Cheng Qian (University of Nottingham), Lee Thomas Harper (University of Nottingham), Thomas Turner (University of Nottingham), Nicholas Warrior (University of Nottingham)
SYMPOSIUM ON MARINE COMPOSITES

RECENT ADVANCES IN ONR COMPOSITES RESEARCH
Keynote: Yapa D.s. Rajapakse (Office of Naval Research (ONR))

CONSTITUTIVE MODELING OF POLYMERIC MATRIX UNDER MULTI-AXIAL STATIC AND DYNAMIC LOADING
Isaac M Daniel (Northwestern University), Brian Werner (Northwestern University)

STUDY OF FLUID-STRUCTURE INTERACTION ON COMPOSITE STRUCTURAL VIBRATION
Young W Kwon (Naval Postgraduate School)

UNDERWATER RESPONSE OF COMPOSITE PANELS SUBJECTED TO NEAR-FIELD BLAST LOADING
Arun Shukla (University of Rhode Island), Frank Livolsi (University of Rhode Island), Daniel Gracia (University of Rhode Island), James Leblanc (Naval Undersea Warfare Center)

BLAST PARAMETER EFFECTS IN FULL SCALE AIR BLAST ON SANDWICH COMPOSITE PANELS
John Philip Dear (Imperial College of Science)

SNAP-THROUGH INSTABILITY, DELAMINATION AND DAMAGE PROGRESSION IN AIR AND WATER BACKED CURVED SANDWICH STRUCTURES
Romesh Batra (Virginia Polytechnic Institute and State University (Virginia Tech)), Jian Xiao (University of Michigan - Ann Arbor)

RESPONSE OF CYLINDRICAL COMPOSITE STRUCTURES TO UNDERWATER IMPULSIVE LOADING
Siddharth Avachat (Georgia Institute of Technology), Min Zhou (Georgia Institute of Technology)

SANDWICH BEAM WITH INTERNAL RESONATORS SUBJECTED TO BLAST LOADS
Bhisham N Sharma (Purdue University), C.t. Sun (Purdue University)

RESIDUAL STRENGTH OF FULL SCALE GRP LAMINATES WITH RANDOMLY DISTRIBUTED FRAGMENT DAMAGES
Sohrab Kazemahvazi (Royal Institute of Technology), Martin Nilsson (), Dan Zenkert (Royal Institute of Technology)

SHOCK FOCUSING IN WATER IN A CONVERGENT CARBON FIBER COMPOSITE STRUCTURE
Chuanxi Wang (University of Southern California), Veronica Eliasson (University of Southern California)

EFFECT OF FLUID-STRUCTURE INTERACTIONS ON UNDERWATER IMPLOSION DYNAMICS
James Seabury Briscoe (University of Maryland at College Park), Sung Won Lee (University of Maryland at College Park)
STRESS AND STRAIN FIELDS IN SANDWICH T-JOINTS SUBJECTED TO SIMULATED SLAMMING LOADS
Mark Battley (University of Auckland), James Flett (University of Auckland), Tom Allen (University of Auckland)

IMPACT PROPERTIES OF WATER EXPOSED GFRP LAMINATES WITH OUTERMOST STEEL LAYERS
Ezequiel Poodts (University of Bologna), Daniele Ghelli (University of Bologna), Tommaso Maria Brugo (University of Bologna), Riccardo Panciroli (Polytechnic Institute of New York University), Giangiacomo Minak (University of Bologna)

EFFECT OF FOAM CRUSHING IN DOUBLE-CURVATURE SANDWICH PANELS SUBJECTED TO BLAST
Michelle Stephanie Hoo fatt (University of Akron), Dushyanth Sirivolu (University of Akron)

DELAMINATION DAMAGE IN LAMINATED SHELLS
Roberta Massabo (University of Genoa), Francesca Campi (University of Genoa)

INDENTATION AND PENETRATION LAWS VALIDATED FOR COMPOSITE LAMINATES DIFFERENT IN FIBRES AND MATRIX
Valentina Lopresto (University of Naples Federico II), Giancarlo Caprino (University of Naples Federico II), Antonio Langella (University of Naples Federico II)

MODELLING OF THE DELAMINATION OF LAMINATED GLASS RESISTING BLAST LOADING
Paolo Del linz (Imperial College of Science), John Philip Dear (Imperial College of Science)

NON-EXPLOSIVE METHODOLOGY FOR DYNAMIC BLAST LOADING OF WIDE AREA COMPOSITE ARMOR PANELS
Daniel Whisler (University of California, San Diego), Hyonny Kim (University of California, San Diego), Ken-an Lou

EFFECT OF SEA WATER CONFINEMENT ON CYCLIC FATIGUE BEHAVIOR OF MARINE COMPOSITES
Akawut Siriruk (University of Tennessee - Knoxville), Dayakar Penumadu (University of Tennessee - Knoxville)

EFFECT OF WATER ABSORPTION ON TIME-TEMPERATURE DEPENDENT STRENGTH OF UNIDIRECTIONAL CFRP
Yasushi Miyano (Kanazawa Institute of Technology), Syuhei Hara (Kanazawa Institute of Technology), Masayuki Nakada (Kanazawa Institute of Technology)
EFFECT OF COMBINED ENVIRONMENTS ON THE FATIGUE OF CARBON FIBER-VINYLESTER COMPOSITES
Chad S. Korach (State University of New York at Stony Brook), Arash Afshar (State University of New York at Stony Brook), Heng tseng Liao (State University of New York at Stony Brook), Fu-pen Chiang (State University of New York at Stony Brook)

EXPERIMENTAL INVESTIGATION OF THE EFFECT OF UV RADIATION AND SALT WATER ON THE DYNAMIC PROPERTIES AND FAILURE OF CARBON FIBER-VINYLESTER COMPOSITES
Maen Alkhader (State University of New York at Stony Brook), Chad S. Korach (State University of New York at Stony Brook), Fu-pen Chiang (State University of New York at Stony Brook)

EVALUATION OF PROGRESS OF PHYSICAL AGING ON VISCOELASTIC BEHAVIOR OF EPOXY RESIN
Masayuki Nakada (Kanazawa Institute of Technology), Kosuke Hosaki (Kanazawa Institute of Technology), Yasushi Miyano (Kanazawa Institute of Technology)

COMPRESSION BEHAVIOUR OF PVC FOAM IN ELEVATED TEMPERATURE USING DIGITAL IMAGE CORRELATION AND A MODIFIED ARCAN FIXTURE
Ole Thybo Thomsen (University of Southampton), Janice Marie Dulieu-barton (University of Southampton), Siavah T Taher (Aalborg University)

THE INFLUENCE OF TEMPERATURE ON THE STABILITY OF POLYMER FOAM CORED SANDWICH STRUCTURES
Janice Marie Dulieu-barton (University of Southampton), Ole Thybo Thomsen (University of Southampton), Shufeng Zhang (University of Southampton)

HOT-WET ENVIRONMENTAL PROPERTIES OF Z-PINNED CARBON-EPOXY COMPOSITES
Adrian Mouritz (Royal Melbourne Institute of Technology)

NONLINEAR BUCKLING OF SYNTACTIC FOAMS WITH IMPERFECT INTERFACE
Adel Shams (Polytechnic Institute of New York University), Matteo Aureli (Polytechnic Institute of New York University), Maurizio Porfiri (Polytechnic Institute of New York University)

PURE MOMENT APPROACH TO DETERMINE MIXED-MODE FRACTURE TOUGHNESS OF SANDWICH FACE/CORE INTERFACES
Christian Berggreen (Technical University of Denmark), George A Kardomeatas (Georgia Institute of Technology), Leif A Carlsson (Florida Atlantic University)

G-CONTROL FATIGUE TESTING OF DEBONDED SANDWICH COMPOSITES
Marcello Manca (Technical University of Denmark), Christian Berggreen (Technical University of Denmark), Leif A Carlsson (Florida Atlantic University)
MANUFACTURING AND IMPACT BEHAVIOR OF SANDWICH COMPOSITES WITH EMBEDDED GRAPHENE PLATELETS
Alfred Loos (Michigan State University), Mahmood Haq (Michigan State University), Rehan Umer (Khalifa University of Science Technology and Research), Lawrence T Drzal (Michigan State University)

EFFECTS OF NANOCLAYS AND WOOD FLOUR ON THE PERFORMANCE OF POLYURETHANE FOAMS
Mahesh Hosur (Tuskegee University), Gregory Strawder (Tuskegee University), Shaik Jeelani (Tuskegee University)

THERMAL AND VISCOELASTIC PROPERTIES OF SC15 EPOXY RESIN COMPOSITES MODIFIED WITH MONTMORILLONITE NANOCLAY EXPOSED TO UV RADIATION
Alfred Tcherbi-narteh (Tuskegee University)

COMPATIBILITY AND FLAMMABILITY STUDY OF UNSATURATED POLYESTER /FUNCTIONALISED PHENOLIC RESIN BLEND MATRICES FOR GLASS REINFORCED COMPOSITES
Latha Krishnan (University of Bolton), Baljinder Kandola (University of Bolton)
TESTING – POSTER

COMPARISON OF CONSOLIDATED COMPOSITES USING MECHANICAL TESTING AND A MULTI-CRITERIA DECISION MAKING TECHNIQUE UNDER VARIABLE MATERIAL PROPERTIES
Jeremy Leung, Melissa Heinrick, Abbas Milani

SPIN TEST OF THE DISK MADE OF CARBON FIBER REINFORCED THREE-DIMENSIONAL COMPOSITES
Yuichi Nagura, Noboru Hiroshima, Hiroshi Hatta, Ken Goto, Yasuo Kogo

TRANSIENT PLANE WAVES PROPAGATION IN NON-HOMOGENEOUS ELASTIC PLATE
Volodymyr Hutsaylyuk, Heorhiy Sulym, Iaroslav Pasternak, Igor Turchyn

DEGRADATION AND DEFORMATION OF CARBON PHENOLIC ABLATOR UNDER ELEVATED TEMPERATURE PROCESSES
Kohei Fukuda, Yuuki Kubota, Hiroshi Hatta, Yasuo Kogo, Kenichi Hirai, Walter Krenkel, Nico Langhof

MECHANICAL BEHAVIOUR OF GLASS FIBRE-REINforced POLYMER THIN RODS
Daxu Zhang, Xiaoyan Wang, Wujun Chen, Fujun Peng, Jinghai Gong, Guozhi Qiu

STUDY OF ELECTROMAGNETIC SHIELD EFFECT OF THE METAL-PLATED CARBON FIBER COMPOSITE
Mee-hye Oh

BENDING STIFFNESS BEHAVIOR OF THICK-WALLED COMPOSITE TUBES
Mohamed El-geuchy, Suong Hoa, Farjad Shadmehri

ON THE ANALYSIS OF A CONTACT FRICTION COMPOSITE-TO-METAL JOINT
Andrei Costache, Konstantinos N. Anyfantis, Christian Berggreen

ADHESIVE STRAIN MEASUREMENT IN PATCH REPAIRED CFRP LAMINATE USING 2D DIC
Mohammad Kashfuddoja, Ramji Manoharan

LUMINESCENT METHOD OF ASSESSING THE STRUCTURAL MODIFICATIONS OF POLYMER MATRICES
Svetlana Karitskaya

MICROSTRUCTURE AND MECHANICAL BEHAVIORS OF THICK-WALLED JOURNAL BEARING GFRP RINGS
Sergei Borisovich Sapozhnikov, Alexandr Viktorovich Bezmelnitsyn, Radii Sergeevich Zinoviev
SURFACE STRESS EFFECT IN THIN FILMS WITH NANOSCALE ROUGHNESS
Mikhail Grekov, Sergey Kostyrko

BLOCK COPOLYMERS ORGANIZATION AT INTERFACE
Diane Fischer, Sophie Bistac, Maurice Brogly

OUT-OF-PLANE TENSILE MODULUS OF UD-CFRP LAMINATE BY 3-POINT BENDING TEST
Eiichi Hara
TEXTILE COMPOSITES

TOWARDS REALISTIC GEOMETRIC MODELING OF WOVEN FABRICS
Guillaume Couégnat (Universite Bordeaux I), Hichem Ayadi (Universite Bordeaux I), Clément Saurat (Universite Bordeaux I), Eric Rohmer (Universite Bordeaux I)

DRAPEABILITY OF GLASS AND STEEL FIBRES KNITTED FABRICS
Marcin Barburski (Technical University of Lodz), Stepan V. Lomov (Katholieke Universiteit Leuven), Kristof Vanclooster (Toray Industries Inc.), Ignaas Verpoest (Katholieke Universiteit Leuven)

MECHANICAL BEHAVIOUR OF 3D WOVEN COMPOSITES UNDER TENSION, COMPRESSION AND BENDING
Shuo Dai (Loughborough University), Paul Cunningham (Loughborough University), Simon Marshall (), Christopher Silva

MODELLING EFFECTS OF GEOMETRIC VARIABILITY ON MECHANICAL PROPERTIES OF 2D TEXTILE COMPOSITES
Mikhail Matveev (University of Nottingham), Andrew C Long (University of Nottingham), Ivor Arthur Jones (University of Nottingham), Guan Lu (First Aircraft institute, AVIC)

OPEN DATA FORMATS AND SCRIPTING IN INTEGRATED MESO-LEVEL TEXTILE COMPOSITE SIMULATIONS
Stepan V. Lomov (Katholieke Universiteit Leuven)

NCF/BMI COMPOSITE MATERIALS: EFFECT OF STITCHING THREADS
Anqi Dong (Beihang University), Xinqing Zhao (Beihang University), Li Zhang (Beihang University), Shan Zhu (Beihang University)

MODELLING OF 3D WOVEN COMPOSITES WITH REALISTIC UNIT CELL GEOMETRY
Steven Daniel Green (University of Bristol), Mikhail Matveev (University of Nottingham), Andrew C Long (University of Nottingham), Stephen Richard Hallett (University of Bristol)

CHARACTERIZATION AND MODELING OF DAMAGE AT THE MESOSCALE OF WOVEN POLYMER MATRIX COMPOSITES.
Christian Fagiano (ONERA), Martin Hirsekorn (ONERA), Gael Grail (ONERA), Vincent Chiaruttini (ONERA)

EVALUATING DEFORMABILITY OF NON-CRIMP FABRIC AND MECHANICAL PERFORMANCE OF NON-CRIMP FABRIC COMPOSITES
Long Li (Beijing University of Aeronautics and Astronautics), Yan Zhao (Beihang University), Lijun Zhang (Beihang University), Wei Li (Hafei Aviation Industry Co. Ltd)
MESO-SCALE ANALYSIS OF 2D GLASS WOVEN PREFORM UNDER COMPACTION
Prasad Potluri (University of Manchester), Zeshan Yousaf (University of Manchester), Fabien Leonard (University of Manchester), Philip Withers (University of Manchester)

3D WOVEN UNIFORM DENSITY DRY PREFORMS FOR THE AEROSPACE INDUSTRY
Nicolas Juillard (JB Martin), Jonathan Lévesque, Olivier G. Vermeersch, Pascal Lamoureux-tremblay, Catherine Leroux (Group CTT), Daniel Puche, Odréanne Laverdière, Janic Duplessis (CE?GEP de Saint-Hyacinthe)

EVALUATION OF THE IMPREGNATION CHARACTERISTICS OF THE CARBON FIBER REINFORCED COMPOSITES USING DISSOLVED POLYPROPYLENE
Song hee Han (Chonbuk National University), Hyun ju Oh (Chonbuk National University), Seong su Kim (Chonbuk National University)

PARTICLE-BASED MODELLING OF THE GEOMETRY AND MECHANICAL BEHAVIOUR OF TEXTILE REINFORCEMENTS
Reza Samadi (University of Ottawa), Francois Robitaille (University of Ottawa)

REALISTIC FEA MODELING OF 3D WOVEN COMPOSITES ON MESOSCALE
Andrew Drach (University of New Hampshire), Borys Drach (University of New Hampshire), Igor Tsukrov (University of New Hampshire), Harun Bayraktar (Albany Engineered Composites), Jon Goering (Albany Engineered Composites)

BRAIDING TAKE-UP SPEED OPTIMIZATION - CASE STUDIES
Johan Hendrik Van ravenhorst (University of Twente), Bert Rietman (University of Twente), Remko Akkerman (University of Twente)

DAMAGE CHARACTERIZATION OF TRIAXIAL BRAIDED COMPOSITES UNDER TENSION USING FULL-FIELD STRAIN MEASUREMENT
Tobias Wehrkamp-richter (Technische Universitat Munchen), Monika Humbs (Technische Universitat Munchen), David Schultheiss (Technische Universitat Munchen), Roland Hinterhoelzl (Technische Universitat Munchen)

NOTCHED RESPONSE OF NON-CRIMP FABRIC THIN-PLY LAMINATES
Albertino Arteiro (Universidade do Porto), Giuseppe Catalanotti (Universidade do Porto), José Xavier (Universidade de Tras-os-Montes e Alto Douro), Pedro P. Camanho (Universidade do Porto)

ANALYSIS AND MODELING OF 3D INTERLOCK FABRIC COMPACTION BEHAVIOR
Nicolas Vernet (Ecole Polytechnique de Montreal), Francois Trochu (Ecole Polytechnique de Montreal)

MODELING TEXTILE REINFORCED CEMENTITIOUS COMPOSITES AND EFFECT OF ELEVATED TEMPERATURES
Johan Blom (Vrije Universiteit Brussel)
PREDICTING THE CONSTITUTIVE BEHAVIOR OF BIAXIAL BRAIDED COMPOSITES USING BEAM UNIT CELLS
Joerg Cichosz (Technische Universitat Munchen), Johannes Bueckle (Technische Universitat Munchen), Roland Hinterhoelzl (Technische Universitat Munchen), Markus Wolfahrt (Polymer Competence Center Leoben)

BEARING BEHAVIOR OF 3D WOVEN COMPOSITES
Michael P Mcclain (Albany Engineered Composites), Nikolay Timoshchuk (Albany Engineered Composites), Jon Goering (Albany Engineered Composites), Chris Redman

MULTI-FUNCTIONAL CARBON FIBER FLAT TAPE FOR COMPOSITES
Vivek Koncherry (University of Manchester), Prasad Potluri (University of Manchester), Anura Fernando (University of Manchester)

STUDY OF BRAID TOPOLOGY AND EFFECT OF BRAID PATTERN ON COMPOSITE PROPERTIES
Sabahat Nawaz (University of Manchester), Prasad Potluri (University of Manchester), Sree shankhachur Roy (University of Manchester), Mayank Gautam (University of Manchester)
THERMOPLASTIC COMPOSITES

FUSION BONDING OF THERMOPLASTIC COMPOSITES
Keynote: Ali Yousefpour (National Research Council Canada)

OPTIMUM PROCESSING CONDITIONS FOR ULTRASONIC WELDING OF THERMOPLASTIC COMPOSITES
Irene Fernandez villegas (Delft University of Technology)

INVESTIGATION OF PROCESS-RELATED DAMAGE DURING THERMAL PIERCING OF A THERMOPLASTIC COMPOSITE
Nicholas W a Brown (The Welding Institute (TWI)), Chris M Worrall (The Welding Institute (TWI)), Ajay Kapadia (The Welding Institute (TWI)), Stephen L Ogin (University of Surrey), Paul A Smith (University of Surrey)

EXPERIMENTAL CHARACTERISATION OF RECYCLED (GLASS/TPU WOVEN FABRIC) FLAKE REINFORCED THERMOPLASTIC COMPOSITES
Mohammed iqbal Abdul rasheed (University of Twente), Remko Akkerman (University of Twente), Bert Rietman (University of Twente), Hendrikus A. Visser (University of Twente)

TENSILE BEHAVIOUR OF CARBON FIBRE COMPOSITES HYBRIDISED WITH SELF-REINFORCED POLYPROPYLENE
Yentl Swolfs, Liesbet Crauwels, Larissa Gorbatikh, Ignaas Verpoest (Katholieke Universiteit Leuven), Peter Hine, Ian Ward (University of Leeds)

SUSCEPTORLESS CONTINUOUS INDUCTION WELDING OF CARBON FIBER REINFORCED THERMOPLASTICS
Martina Hümber (Institut fuer Verbundwerkstoffe GmbH), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

SQUEEZE FLOW OF RANDOMLY-ORIENTED STRANDS THERMOPLASTIC COMPOSITES
Gilles-philippe Picher-martel (McGill University), Arthur Levy (McGill University), Pascal Hubert (McGill University)

COMPRESSION MOULDING OF COMPLEX PARTS FOR THE AEROSPACE WITH DISCONTINUOUS NOVEL AND RECYCLED THERMOPLASTIC COMPOSITE MATERIALS
Nicolas Eguemann (Cross Composite AG)

CHARACTERIZATION OF STOCHASTIC HONEYCOMB SANDWICH FAILURE
Megan Hostetter (University of Toronto), Brent Cordner (OCAD University), Glenn D Hibbard (University of Toronto)
INFLUENCE OF TEXTILE PARAMETERS AND LAMINATE BUILD-UP ON SURFACE QUALITY OF THERMOPLASTIC FIBER-REINFORCED COMPOSITES
Klaus Hildebrandt (Institut fuer Verbundwerkstoffe GmbH), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH), Felix Schulte-hubbert (Institut fuer Verbundwerkstoffe GmbH)

IMPACT OF THE MANUFACTURING PROCESS OF LOCALLY LOAD-RELATED REINFORCED COMPOSITES ON THE INTERFACE BEHAVIOR
Rene Holschuh (Institut fuer Verbundwerkstoffe GmbH), Jovana Dzalto (Institut fuer Verbundwerkstoffe GmbH), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

DEVELOPMENT OF AN ON-LINE ANALYSIS METHOD FOR THE THERMOPLASTIC IMPREGNATION PROCESS
Marcel Christmann (Institut fuer Verbundwerkstoffe GmbH), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

MECHANICAL PROPERTIES OF RANDOMLY ORIENTED STRAND (ROS) THERMOPLASTIC COMPOSITES
Marina Selezneva (McGill University), Kouwonou Kodjo Dodji (Ecole de Technologie Superieure), Larry Lessard (McGill University), Pascal Hubert (McGill University)

INDUCTION WELDING OF PPS-CARBON COMPOSITES: MODELING AND EXPERIMENTAL RESULTS
Alfonso Maffezzoli (University of Salento)

REPAIR OF CF/PA6 LAMINATE BELOW MELTING POINT WITH BARELY VISIBLE IMPACT DAMAGE
Manato Kanesaki, Masaaki Nishikawa, Masaki Hojo (Kyoto University), Chika Uchijo, Mototsugu Tanaka, Hiroshi Saito, Isao Kimpara (Kanazawa Institute of Technology)

EXPERIMENTAL AND NUMERICAL INVESTIGATION OF LONG-TERM BEHAVIOUR OF MODIFIED TEXTILE-REINFORCED POLYPROPYLENE
Werner A. Hufenbach, Volker Ulbricht, Dominik Branke, Markus Kaestner (Technische Universitat Dresden), Edith Maeder (Leibniz Institute of Polymer Research Dresden), Martin Pohl (Leichtbau-Zentrum Sachsen GmbH)

THE EFFECT OF FABRIC SCOURING ON FIRE AND MECHANICAL PERFORMANCE OF FLAME RETARDED FLAX/PP AND FLAX/PLA COMPOSITES
Wiwat Pornwannachai (University of Bolton), Baljinder Kandola (University of Bolton), Gill Smart (University of Bolton)

CHALLENGES FOR THE MANUFACTURING OF A LATTICE STRUCTURE FUSELAGE SECTION WITH PREPREG LAY-UP TECHNOLOGY
Jens Mack (Institut fuer Verbundwerkstoffe GmbH), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

**ALIGNED DISCONTINUOUS CARBON FIBRES IN THERMOPLASTIC MATRICES VIA EXTRUSION OF UD TAPE**

Jonny Blaker (Imperial College of Science), Alexander Bismarck (Imperial College of Science), Ulf Nagel (University of Strathclyde)

**PROCESSING CONDITIONS AND PROPERTIES OF CONTINUOUS FIBER REINFORCED GF/PP THERMOPLASTIC MATRIX COMPOSITES MANUFACTURED FROM DIFFERENT PRE-IMPREGNATED MATERIALS**

Joao Pedro Nunes, Marta Sofia Santos (Universidade do Minho), Joao Francisco Silva (Instituto Politecnico do Porto), Paulo Jorge Novo (Escola Superior de Tecnologia e Gestao), António Torres Marques (Universidade do Porto)

**HIGH STRAIN RATE COMPRESSIVE BEHAVIOUR OF SELF REINFORCED - POLY(ETHYLENE TEREPHTALATE) COMPOSITE CORRUGATED CORES**

Christof Schneider (Royal Institute of Technology), Sohrab Kazemahvazi (Royal Institute of Technology), Dan Zenkert (Royal Institute of Technology), Mark Battley (University of Auckland)

**THE EFFECT OF DECONSOLIDATION ON INTERLAMINAR SHEAR STRENGTH FOR THERMOPLASTIC COMPOSITES**

Markus Brzeski (Institut fur Verbundwerkstoffe GmbH), Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)
TSAI PANEL

NEW VALUES IN LAMINATE DESIGN AND MANUFACTURING
Stephen W Tsai (Stanford University)

RECENT DEVELOPMENTS IN AUTOMATED COMPOSITES MANUFACTURING
Suong Hoa (Concordia University)

DEVELOPMENT OF CFRP BODY STRUCTURE FOR LEXUS LFA AND THE TECHNOLOGY ADVANCEMENT TOWARDS MASS PRODUCTION
Nobuya Kawamura (Toyota Motor Corporation)

PRACTICAL SOLUTIONS TO TRL BARRIERS IN THE DEVELOPMENT OF COMPOSITE APPLICATIONS
Dustin Louis Dequine (Fiberforge Corporation)
Table of Content

Invited Papers
Oral Presentations
Poster Presentations
Preface
Reviewers from the Program Committee
External Reviewers
Organizers

Invited Paper

Vitrimers
Ludwig Leibler (ESPCI) 1

Challenges of Applying Composite Materials to the Next Generation of Aeroengines
Dale Richard Carlson (GE) 2

Hierarchical Biocomposites By Design
Markus Buehler (Massachusetts Institute of Technology) 3

Introduction of Society of Automotive Composites Japan - A new wave of composites for automobile industry
Hiroyuki Hamada (Kyoto Institute of Technology) 4

The world wide failure exercise- Strength prediction is not easy--- But we are getting there
Michael John Hinton (National Composites Centre)
Sam Kaddour (QinetiQ Ltd) 5

RECENT ADVANCES IN ONR COMPOSITES RESEARCH
Yapa D.s. Rajapakse (Office of Naval Research (ONR)) 7

Stimulus response polymer and multifunctional composites: challenges and prospects
Jinsong Leng (Harbin Institute of Technology) 8

From smart sensing to multifunctional materials: Are we ready for the challenges?
Fu-kuo Chang (Stanford University) 9

How to make high performance structural composites multifunctional 10
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The challenge of predicting failure in composites</td>
<td>12</td>
</tr>
<tr>
<td>Michael R Wisnom(University of Bristol)</td>
<td></td>
</tr>
<tr>
<td>Virtual Testing of Composites: Opportunities and Challenges</td>
<td>14</td>
</tr>
<tr>
<td>Anthony M Waas(University of Michigan - Ann Arbor)</td>
<td></td>
</tr>
<tr>
<td>A review: Carbon Fiber Reinforced composites for automotive</td>
<td>16</td>
</tr>
<tr>
<td>Mohini Sain(University of Toronto)</td>
<td></td>
</tr>
<tr>
<td>50 years of Advanced Composites Research and Innovation: A Canadian Perspective</td>
<td>17</td>
</tr>
<tr>
<td>Anoush Poursartip(University of British Columbia)</td>
<td></td>
</tr>
<tr>
<td>Fabrication and Evaluation of FRTP using in-situ polymerizable PA6 with VARTM</td>
<td>18</td>
</tr>
<tr>
<td>Goich Ben(Nihon University)</td>
<td></td>
</tr>
<tr>
<td>Applications of Composite Technologies to Aerospace Systems in KARI</td>
<td>20</td>
</tr>
<tr>
<td>Seung Jo Kim(Korea Aerospace Research Institute)</td>
<td></td>
</tr>
<tr>
<td>Fusion Bonding of Thermoplastic Composites</td>
<td>22</td>
</tr>
<tr>
<td>Ali Yousefpour(National Research Council Canada)</td>
<td></td>
</tr>
<tr>
<td>MULTIFUNCTIONAL COMPOSITES BY SEGMENTATION AND ASSEMBLY</td>
<td>23</td>
</tr>
<tr>
<td>Thomas Siegmund(Purdue University)</td>
<td></td>
</tr>
<tr>
<td>Somesh Khandelwal(Purdue University)</td>
<td></td>
</tr>
<tr>
<td>Multifunctional Composite Materials for Bio-inspired Systems Allowing Autonomic Response (ICCM-19 KEYNOTE)</td>
<td>32</td>
</tr>
<tr>
<td>B. Les Lee(US Air Force Office of Scientific Research)</td>
<td></td>
</tr>
<tr>
<td>How Do Carbon Nanotube Fibers Gain Their Strength?</td>
<td>33</td>
</tr>
<tr>
<td>Tsu-wei Chou(University of Delaware)</td>
<td></td>
</tr>
</tbody>
</table>
Recent Developments in Automated Composites Manufacturing
Suong Hoa(Concordia University)

Development of CFRP Body Structure for Lexus LFA and the Technology advancement towards Mass Production
Nobuya Kawamura(Toyota Motor Corporation)

Practical Solutions to TRL Barriers in the Development of Composite Applications
Dustin Louis Dequine(Fiberforge Corporation)

New Values in Laminate Design and Manufacturing
Stephen W Tsai(Stanford University)

Ceramic/Metal Nanocomposites: Lyophilization and Spark Plasma Sintering
Carlos Fidel Gutierrez-Gonzalez(Consejo Superior de Investigaciones Cienta-ficas (CSIC))
Said Agouram(Universidad Politecnica de Valencia)
Ramon Torrecillas(Consejo Superior de Investigaciones Cienta-ficas (CSIC))
Jose S Moya(CINN-CSIC)
Sonia Lopez-esteban(Consejo Superior de Investigaciones Cienta-ficas (CSIC))

Development High Temperature Resistant Materials Using Carbon/Phenolic Prepregs With Nanoclays
Exequiel Santos Rodriguez(Universidad Nacional de Mar del Plata)

Effect of Reprocessing Cycles on Morphology and Properties of Ethylene Vinyl Acetate (EVA) Copolymer/Olive Husk Flour Composites
Mustapha Kaci(Universite de Bejaia)

Improvement in the Adhesive Property of Chemically Stable Polymeric Materials and FRP
Hitoshi Kanazawa(Fukushima University)

Correlations Of Mechanical And Ionic Conduction Properties With Bicontinuous Morphologies Of Structural Electrolytes
Natasha Shirshova(Imperial College of Science, Technology and Medicine, University of London)
Oral Presentation (Continued)

Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)
Shuaijin Carreyette (Cytec)
Emile Smith Greenhalgh (Imperial College of Science, Technology and Medicine, University of London)
Patrik Johansson (Chalmers University of Technology)
Maciej Marczewski (Chalmers University of Technology)
Per Jacobsson (Chalmers University of Technology)
Gerhard Kalinka (BAM Federal Institute for Materials Research and Testing)
Milo Sp Shaffer (Imperial College of Science, Technology and Medicine, University of London)
Malte Wienrich (BAM Federal Institute for Materials Research and Testing)
Joachim Hg Steinke (Imperial College of Science, Technology and Medicine, University of London)

An Original Approach Based On A Modified Halpin Tsai Model To Investigate The Morphology Of Sepiolite Filled Thermosets
Aurélie Taguet (Ecole des Mines d’Alès)
Melissa Malige
Stephane Corn (Ecole des Mines d’Alès)
José-Marie Lopez-Cuesta (Ecole des Mines d’Alès)

LASER THROUGH-TRANSMISSION WELDING OF WHITE-PIGMENTED GLASS-PEI TO CARBON-PEI
Dustin Louis Dequine (Fiberforge Corporation)

Study of the reprocessing effects on the behavior of the PVC/alfa composites compatibilized with PVC-g-MA
Amar Boukerrou (Universite de Bejaia)
Dalila Hammiche (Universite de Bejaia)
Alain Bourmaud (Universite de Bretagne Sud)
Hocine Djidjelli (Universite de Bejaia)
Yves Grohens (Universite de Bretagne Sud)

Prediction of Attenuated Guided Waves Propagation in Carbon Fiber Composites
Matthieu Gresil (University of South Carolina)
Victor Giurgiutiu (University of South Carolina - Columbia)

Functionalized graphene-BaTiO3/ferroelectric polymer nanocomposites with excellent dielectric properties
Zhi-min Dang (University of Science and Technology Beijing)
Dongrui Wang (University of Science and Technology Beijing)

DESIGN AND CHARACTERIZATION OF FILAMENT-WOUND COMPOSITE SHELLS REINFORCED BY GRID
Zaiwen Lin (Harbin Institute of Technology)

AN EXPERIMENTAL METHOD TO DETERMINE THE CRITICAL ENERGY RELEASE RATE ASSOCIATED WITH LONGITUDINAL COMPRESSIVE FAILURE IN CFRP
Daniel Svensson (University College of Skovde)
Ulf Stigh (University College of Skovde)
Svante Alfredsson (University College of Skovde)

CNT-grafted carbon fiber composites: characterization of the fiber/matrix interface
Niels De greef (Katholieke Universiteit Leuven)
Aranud Magrez (École polytechnique fédérale de Lausanne)
Jean-pierre Locquet (Katholieke Universiteit Leuven)
László Forró (École polytechnique fédérale de Lausanne)
Jin won Seo (Katholieke Universiteit Leuven)

Global and local influence of stacking sequence on the strength of adhesively bonded joints of CFRP laminates
Jerome Rousseau (Universite de Bourgogne)
Purimpat Satthumnuwong (University of Phayao)

Modelling the effect of Gaps and Overlaps in Automated Fibre Placement (AFP) manufactured laminates
Xiangqian Li (University of Bristol)
Stephen Richard Hallett (University of Bristol)
Michael R Wisnom (University of Bristol)

Feasibility Study on a Large Chopper Disc for a TOF-Spectrometer
Valeria Antonelli (Technische Universitat Munchen)
Wiebke Lohstroh (Technische Universitat Munchen)
Horst Baier (Technische Universitat Munchen)
PRODUCTION AND EVALUATION OF INTRA-FILAMENT HYBRIDS 167
Richard Murray(University of Birmingham)

COMPOSITE PHASE CHANGE MATERIALS WITH ENHANCED THERMAL DIFFUSIVITY 179
Adam Dominiak(Technical University of Warsaw)
Jan Alexander Blaszczyk(Technical University of Warsaw)

NANOCRYSTALLINE CELLULOSE-LIGNIN CARBON NANOFIBRES 187
Yingjie Li(University of British Columbia)
Li-ting Lin(University of British Columbia)
John F. Kadla(University of British Columbia)
Frank Ko(University of British Columbia)

EFFECT OF COMBINED ENVIRONMENTS ON THE FATIGUE OF CARBON FIBER-VINYLESTER COMPOSITES 189
Chad S. Korach(State University of New York at Stony Brook)
Arash Afshar(State University of New York at Stony Brook)
Heng tseng Liao(State University of New York at Stony Brook)
Fu-pen Chiang(State University of New York at Stony Brook)

PROCESS-STRUCTURE-PROPERTY RELATIONSHIP FOR ORGANIC SEMICONDUCTORS GROWN BY ORGANIC VAPOR JET PRINTING 196
Olga Shalev(University of Michigan - Ann Arbor)
Max Shtein(University of Michigan - Ann Arbor)
Shaurjo Biswas(University of Michigan - Ann Arbor)

IMPROVEMENT OF LIMIT-BASED APPROACH TO STRESS ANALYSIS FOR ORTHOTROPIC COMPOSITE CYLINDERS (0/90) SUBJECTED TO PURE BENDING 198
Canhui Zhang(Xiamen University)
Suong Hoa(Concordia University)
Pei Liu(Xiamen University)

A TEXTILE-BASED VIABLE COMPOSITE STENT FOR VASCULAR APPLICATION 210
Valentine Gesche(Aachen University)
PREDICTION METHOD OF INTERNAL STRUCTURE FOR DESIGNING BRAIDED -COMPOSITES
WITH THERMOPLASTIC RESIN-
Takeshi Saito(Kyoto Institute of Technology)
Ryo Morinaga(Kyoto Institute of Technology)
Masaru Imamura(Kyoto Institute of Technology)
Asami Nakai(Gifu University)
Akio Ohtani(Gifu University)

Fabrication and mechanical properties of carbon nanotube composite microtrusses
Sei jin Park(University of Michigan - Ann Arbor)
Anna Christine Brieland-shoultz(University of Michigan - Ann Arbor)
Matthew R. Maschmann(Air Force Research Laboratory)
Sameh H. Tawfick(Massachusetts Institute of Technology)
Michael De volder
Jeffery W. Baur(Air Force Research Laboratory)
A. john Hart(University of Michigan - Ann Arbor)

CUMULATIVE FATIGUE DAMAGE PREDICTION OF COMPOSITE STRUCTURES
Chris Cater(Michigan State University)
Xinran Xiao(Michigan State University)

Manufacturing of composite laminates with perforated carbon nanotube forest core
Sei jin Park(University of Michigan - Ann Arbor)
Sameh H. Tawfick(Massachusetts Institute of Technology)
Anna Christine Brieland-shoultz(University of Michigan - Ann Arbor)
A. john Hart(University of Michigan - Ann Arbor)

High Stroke Actuation of Aligned CNT-Paraffin Composite Films
Davor Copic(University of Michigan - Ann Arbor)
A. john Hart(University of Michigan - Ann Arbor)

EFFECT OF VARIOUS KNITTING TYPES ON IMPACT PROPERTIES OF TEXTILE COMPOSITES
Ozgur Demircan(Kyoto Institute of Technology)
Tadashi Fujimura(Shima Seiki Mfg., Ltd.)
Oral Presentation (Continued)

Shinsuke Ashibe (SHIMA SEIKI Mfg. Ltd.)
Tatsuya Kosui (SHIMA SEIKI MFG. Ltd.)
Asami Nakai (Gifu University)

MODAL ANALYSIS OF COMPOSITE SANDWICH STRUCTURES WITH VISCOELASTIC LAYERS 260
Christophe Leclerc (Ecole Polytechnique de Montreal)
Edith Roland Fotsing (Ecole Polytechnique de Montreal)
Annie Ross (Ecole Polytechnique de Montreal)

CARBON FIBRE REINFORCED EPOXY COMPOSITES WITH VARIABLE STIFFNESS FOR USE IN MORPHING AEROSTRUCTURES 270
Paul Robinson (Imperial College of Science, Technology and Medicine, University of London)
Henry Maples (Imperial College of Science, Technology and Medicine, University of London)
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)
Oliver Gaite (Imperial College of Science, Technology and Medicine, University of London)
Stephen Smith (Imperial College of Science, Technology and Medicine, University of London)

SHAPE MEMORY POLYPER BASED NANOComposite ACTUATORS 278
Qing-qing Ni (Shinshu University)

SURFACE TREATMENT OF CONTINUOUS FIBER FOR IMPREGNATION AND MECHANICAL PROPERTIES OF THERMOPLASTIC COMPOSITES 286
Koichi Bun (Kyoto Institute of Technology)
Jun Hirai (Tsudakoma Corporation)
Asami Nakai (Gifu University)
Hiroyuki Hamada (Kyoto Institute of Technology)
Akira Fudauchi (Kyoto Institute of Technology)

Failure aspects of fiber metal laminates after low velocity and low energy impact 294
Jaroslaw Bienias (Technical University of Lublin)

HIERARCHICAL COMPOSITES WITH PRESERVED CARBON FIBER STRENGTHS 296
Richard Li (Massachusetts Institute of Technology)
Peter Florin (Massachusetts Institute of Technology)
Stephen Alan Steiner (Massachusetts Institute of Technology)
Oral Presentation (Continued)

Brian Wardle (Massachusetts Institute of Technology)

Stress Contour Utilization for Estimating Interfacial Properties of Fiber/Matrix Composite
Bentang Arief Budiman (Tokyo Institute of Technology)
Kosuke Takahashi (Tokyo Institute of Technology)
Kazuaki Inaba (Tokyo Institute of Technology)
Kikuo Kishimoto (Tokyo Institute of Technology)

Kosuke Takahashi (Tokyo Institute of Technology)
Kazuaki Inaba (Tokyo Institute of Technology)
Kikuo Kishimoto (Tokyo Institute of Technology)

Characterization of stochastic honeycomb sandwich failure
Megan Hostetter (University of Toronto)
Brent Cordner (OCAD University)
Glenn D Hibbard (University of Toronto)

Viscoelastic Behavior of Functional Graded Composites using Finite Element Method:
Experimental and Numerical Assessment
Ya Wang (University of Michigan - Ann Arbor)
Daniel J. Inman (University of Michigan - Ann Arbor)

ALIGNED DISCONTINUOUS CARBON FIBRES IN THERMOPLASTIC MATRICES VIA EXTRUSION OF UD TAPE
Jonny Blaker (Imperial College of Science, Technology and Medicine, University of London)
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)
Ulf Nagel (University of Strathclyde)

NUMERICAL AND EXPERIMENTAL INVESTIGATION OF COMPOSITE BOLTED JOINTS REPAIRED WITH INSERTS
Evangelos Ioannis Avgoulas (Imperial College of Science, Technology and Medicine, University of London)
Sergio Tejada (Imperial College of Science, Technology and Medicine, University of London)
Cesare Stocchi (Imperial College of Science, Technology and Medicine, University of London)
Paul Robinson (Imperial College of Science, Technology and Medicine, University of London)
Silvestre T Pinho (Imperial College of Science, Technology and Medicine, University of London)

MECHANICAL CHARACTERIZATION OF PLA-BAMBOO FIBERS GREEN COMPOSITE
Fernando Ramirez (Universidad de Los Andes)
Mauricio Gonzalez (Universidad de Los Andes)
Oral Presentation (Continued)

Nelson Eduardo Barrera (Universidad de Los Andes)
Sebastian Castellanos (Universidad de Los Andes)

Damage evolution law in the framework of continuum damage mechanics for UD composites
Shuguang Li (University of Nottingham)
Qing Pan (University of Nottingham)
Tian-hong Yu (University of Nottingham)

BIOMASS BASED GREEN COMPOSITES: FABRICATION AND PERFORMANCE EVALUATION
Vidhya Nagarajan (University of Guelph)
Amar K Mohanty (University of Guelph)
Manjusri Misra (University of Guelph)

Effects of Viscoelasticity on the Deployment of Bistable Tape Springs
Alex W Brinkmeyer (University of Bristol)
Sergio Pellegrino (California Institute of Technology)
Paul M Weaver (University of Bristol)
Matthew Santer (Imperial College of Science, Technology and Medicine, University of London)

Structural optimisation of discontinuous fibre composites
Connie Cheng Qian (University of Nottingham)
Lee Thomas Harper (University of Nottingham)
Thomas Turner (University of Nottingham)
Nicholas Warrior (University of Nottingham)

MESO-SCALE ANALYSIS OF 2D GLASS WOVEN PREFORM UNDER COMPACTION
Prasad Potluri (University of Manchester)
Zeshan Yousaf (University of Manchester)
Fabien Leonard (University of Manchester)
Philip Withers (University of Manchester)

EFFECT OF HUMIDITY AND TEMPERATURE ON THE CURING AND AGING OF A ROOM TEMPERATURE EPOXY ADHESIVE
Émilie Charette (École Polytechnique de Montréal)
Edith roland Fotsing (École Polytechnique de Montréal)
Oral Presentation (Continued)

Catherine Billotte (Ecole Polytechnique de Montreal)
Edu Ruiz (Ecole Polytechnique)
Daniel Grenier (Centre de recherche industrielle du Quebec CRIQ)
Julian Gutiérrez (Ecole Polytechnique de Montreal)

MODELING OF NON-ISOTHERMAL LIQUID COMPOSITE MOLDING: THE HEAT DISPERSION ISSUE 412
Pavel Simacek (University of Delaware)
Suresh G Advani (University of Delaware)

ARTIFICIAL NEURAL NETWORKS MODELING OF THE VISCOELASTIC PROPERTIES OF VAPOR-GROWN CARBON NANOFIBER/VINYL ESTER NANOCOMPOSITES 421
Osama Y Abuomar (Mississippi State University)
Sasan Nouranian (Mississippi State University)
Roger King (Mississippi State University)

STRUCTURAL QUALITY BIOCOMPOSITES OF TREATED FLAX FIBER WITH EPOXIDIZED SUCROSE SOYATE RESIN 429
Christopher Taylor (North Dakota State University)
Taylor Krosbakken (North Dakota State University)
Chad A Ulven (North Dakota State University)
Adlina Paramarta (North Dakota State University)
Dean Webster (North Dakota State University)

A MATERIALS INFORMATICS APPROACH TOWARDS CREATING FUNCTIONALITY AT INTERFACES IN PMC 438
John Kieffer (University of Michigan - Ann Arbor)
Michael Aldridge (University of Michigan - Ann Arbor)
Katherine Sebeck (University of Michigan - Ann Arbor)
Chen Shao (University of Michigan - Ann Arbor)

Processing warpage of asymmetric composite panels manufactured by resin transfer molding 440
Philippe Causse (Ecole Polytechnique de Montreal)
Edu Ruiz (Ecole Polytechnique)
François Trochu (Ecole Polytechnique de Montreal)
Oral Presentation (Continued)

DELAMINATION PERFORMANCE OF TUFTED CARBON/EPOXY COMPOSITES MADE BY AUTOMATED DRY FIBRE PLACEMENT
Diego Marcelo Lombetti (Cranfield University)
Giuseppe Dell’anno (Cranfield University)
Ivana Katherine Partridge (University of Bristol)
Alex Skordos (Cranfield University)

A NEW BIODEGRADABLE BIOPLASTIC TERNARY BLEND AS NEW MATRIX SYSTEM FOR BIOCOMPOSITE USES
Kunyu Zhang (University of Guelph)
Amar K Mohanty (University of Guelph)
Manjusri Misra (University of Guelph)

EFFECT OF NANOGRAPHITE ON THERMAL PROPERTIES OF LIQUID MOLDED POLYAMIDE-6 LAMINATES
Peter W. Barfknecht (University of Alabama - Birmingham)
Selvum Brian Pillay (University of Alabama - Birmingham)
Uday K Vaidya (University of Alabama - Birmingham)

MODEL FOR TIME-INDEPENDENT AND TIME-DEPENDENT DAMAGE EVOLUTION AND ITS INFLUENCE ON CREEP OF MULTIDIRECTIONAL POLYMER COMPOSITE LAMINATES
Amir Asadi (University of Manitoba)
Raghavan Jayaraman (University of Manitoba)

MECHANICAL PROPERTIES OF RANDOMLY ORIENTED STRAND (ROS) THERMOPLASTIC COMPOSITES
Marina Selezneva (McGill University)
Kouwonou Kodjo Dodji (Ecole de Technologie Superieure)
Larry Lessard (McGill University)
Pascal Hubert (McGill University)

BRAIDING TAKE-UP SPEED OPTIMIZATION - CASE STUDIES
Johan Hendrik Van ravenhorst (University of Twente)
Bert Rietman (University of Twente)
Oral Presentation (Continued)

Remko Akkerman (University of Twente)

**PHASE SEPARATED EPOXY/POM MATRIX FOR CARBON FIBRE REINFORCED COMPOSITES**
Mohammadali Aravand (Katholieke Universiteit Leuven)
Larissa Gorbatikh (Katholieke Universiteit Leuven)
Stepan V. Lomov (Katholieke Universiteit Leuven)
Ignas Verpoest (Katholieke Universiteit Leuven)

**Mixed-mode translaminar fracture: Experimental results and numerical modelling**
Matthew John Laffan (Imperial College of Science, Technology and Medicine, University of London)
Silvestre T Pinho (Imperial College of Science, Technology and Medicine, University of London)
Paul Robinson (Imperial College of Science, Technology and Medicine, University of London)

**New composites based on bacterial cellulose and PHAs for tissue engineering applications**
Paul Octavian Stanescu (University Politehnica of Bucharest)
Catalin Zaharia (University Politehnica of Bucharest)
Veronica Fratila (University Politehnica of Bucharest)
Bianca Galateanu (University of Bucharest)
Eugeniu Vasile (University Politehnica of Bucharest)

**A floating node method for modelling multiple discontinuities within an element**
Silvestre T Pinho (Imperial College of Science, Technology and Medicine, University of London)
Bo Yang Chen (Imperial College of Science, Technology and Medicine, University of London)
Pedro M Baiz (Imperial College of Science, Technology and Medicine, University of London)
Nelson V De carvalho (National Institute of Aerospace)
Tay T Earn (National University of Singapore)

**Analysis of crack migration in laminated composites using conventional and mesh-independent cohesive zone models**
Maria Francesca Pernice (University of Bristol)
Luiz Kawashita (Cardiff University)
Stephen Richard Hallett (University of Bristol)

**MULTI-FUNCTIONAL CARBON FIBER FLAT TAPE FOR COMPOSITES**
Oral Presentation(Continued)

Vivek Koncherry(University of Manchester)
Prasad Potluri(University of Manchester)
Anura Fernando(University of Manchester)

Design and Validation of the Primary Structure and Bonded Joints for the Next Generation Large Canadarm Testbed
Peter P. Krimbalis(MDA Corporation)
Drazen Djokic(National Research Council Canada)
Gavin Scott Hay(MDA Corporation)
Rick Cole(National Research Council Canada)

REPRESENTING TRANSLAMINAR FRACTURE AS A COHESIVE CRACK
Rita Teixeira(Imperial College of Science, Technology and Medicine, University of London)
Silvestre T Pinho(Imperial College of Science, Technology and Medicine, University of London)

THROUGH-THICKNESS ELECTRICAL RESISTANCE IN GLASS/EPOXY/CNTs COMPOSITE LAMINATES SUBJECTED TO MECHANICAL LOADING
Ali Naghashpour(Concordia University)
Suong Hoa(Concordia University)

UTILIZATION OF FLAX FIBERS AND GLASS FIBERS IN A BIO-BASED RESIN
Nassibeh Hosseini(North Dakota State University)
Chad A Ulven(North Dakota State University)
Dean Webster(North Dakota State University)

A MIXED MODE COHESIVE LAW INCLUDING INTERFACE DILATATION UNDER NEAR MODE II FRACTURE
Bent F Sørensen(Technical University of Denmark)
Stergios Goutianos(Technical University of Denmark)

MATERIALS FOR LIGHTWEIGHT RADIATION SHIELD FOR CANADIAN POLAR COMMUNICATIONS AND WEATHER (PCW) SATELLITE MISSION
Adebayo Emmanuel(University of Manitoba)
Raghavan Jayaraman(University of Manitoba)
Philip Andrew Ferguson(Magellan Aero)
Oral Presentation (Continued)

Raymond Harris (Magellan Aero)

An Approach Towards a Basic Materials Characterization for the Simulation of Process Induced Deformations
Mathias Peter Hartmann (Technische Universitat Munchen)
Matthias Strebinger (Technische Universitat Munchen)
Roland Hinterhoelzl (Technische Universitat Munchen)

CHEMICAL SHRINKAGE AND THERMOMECHANICAL CHARACTERIZATION OF DIFFERENT RESIN SYSTEMS AND PREPREGS DURING CURE BY A NOVEL IN SITU MEASUREMENT METHOD
Catherine Billotte (Ecole Polytechnique de Montreal)
Edu Ruiz (Ecole Polytechnique)
Clémentine Fellah (Ecole Polytechnique de Montreal)

A NEW MULTI-PHYSICS MOLECULAR DYNAMICS FINITE ELEMENT METHOD FOR DESIGNING GRAPHENE BASED NANO-STRUCTURES
Andre Antoine renaud Wilmes (Imperial College of Science, Technology and Medicine, University of London)
Silvestre T Pinho (Imperial College of Science, Technology and Medicine, University of London)

Design, dimensioning and automated manufacturing of profiled composite driveshafts
Florian Lenz (Technische Universitat Dresden)

IMPREGNATION PROCESS FOR FIBER HYBRID BRAIDED THERMOPLASTIC COMPOSITES
Toshihiro Motochika (Kyoto Institute of Technology)
Kazufumi Nakazawa (Kyoto Institute of Technology)
Akio Ohtani (Gifu University)
Asami Nakai (Gifu University)

ROBOTIC DRY FIBRE PLACEMENT OF 3D PREFORMS
Alvaro Silva-caballero (University of Manchester)
Prasad Potluri (University of Manchester)
Dhavalsinh Jetavat (University of Manchester)
William Richard Kennon (University of Manchester)
Oral Presentation (Continued)

FAST AND SCALABLE SELF-ASSEMBLY APPROACHES TO BIOINSPIRED NANOCOMPOSITE FILMS AND COATINGS 647
Andreas Walther (Aachen University)

THERMOPLASTIC COMPOSITES: IN-SITU CONSOLIDATION OR IN-SITU WELDING? 649
Dhiren K. Modi (University of Limerick)
Anthony John Comer (University of Limerick)
Michael McCarthy (University of Limerick)

Improved compression strength of carbon/glass/epoxy hybrid composites 656
Christen Malte Markussen (Technical University of Denmark)

DESING OF TRANSVERSE BIAXIAL TENSILE TESTS ON CRUCIFORM SPECIMENS 664
Federico Paris (Universidad de Sevilla)
Alberto Barroso (Universidad de Sevilla)
Elena Correa (Universidad de Sevilla)
Maria Dolores Pérez (Universidad de Sevilla)
David Vega (Universidad de Sevilla)

FREE EDGE ANALYSIS OF CFRP LAMINATES BASED ON A HOMOGENIZATION THEORY FOR TIME-DEPENDENT COMPOSITES 672
Keita Goto (Tsukuba University)
Tetsuya Matsuda (Tsukuba University)

Innovative Integral Composite Aircraft Structures 680
Kristian Zimmermann (EADS Innovation Works)
Tamas Levente Havar (EADS Innovation Works)

Study of braid topology and effect of braid pattern on composite properties 689
Sabahat Nawaz (University of Manchester)
Prasad Potluri (University of Manchester)
Sree Shankhachur Roy (University of Manchester)
Mayank Gautam (University of Manchester)

DESIGN AND MANUFACTURE OF ANISOTROPIC HOLLOW BEAM USING THERMOPLASTIC COMPOSITES 696
Oral Presentation (Continued)

Tsuyoshi Matsuo(The University of Tokyo)
Kosuke Takayama(Tokyo University)
Satoshi Nagoh(Toyobo Co.,Ltd.)
Kohei Kiriyama
Jun Takahashi(The University of Tokyo)
Takahiro Hayashi

SPACE VARIABLES SEPARATION AND PGD MODEL REDUCTION METHOD TO SOLVE ELASTICITY PROBLEMS ON LAMINATED PLATES AND SHELLS
Brice Bognet(Ecole Centrale de Nantes)
Adrien Leygue(Ecole Centrale de Nantes)
Francisco Chinesta(Ecole Centrale de Nantes)

PROCESS OPTIMISATION FOR MILLING CARBON/EPOXY COMPOSITE MATERIAL USING RESPONSE SURFACE METHODOLOGY AND VIBRATION ANALYSIS
Hicham Chibane(Ecole Nationale d'Ingenieurs du Val de Loire)
Roger Serra(Ecole Nationale d'Ingenieurs du Val de Loire)
Antoine Morandene(University Francois Rabelais de Tours)
René Leroy(Universite Francois Rabelais de Tours)

A mechanical model for laminated shells with cohesive interfaces loaded dynamically: verification and applications
Francesca Campi(University of Genoa)
Roberta Massabo(University of Genoa)

INFLUENCE OF POWDER COATING PRE-CURING TIME ON INTERFACE COATING/EPOXY MATRIX COMPOSITE
Aurore Lafabrier(Universite de Toulon et du Var)
Ahmad Fahs(Universite de Toulon et du Var)
Emmanuel Aragon(Universite de Toulon et du Var)
Jean-francois Chailan(Universite de Toulon et du Var)

EXPERIMENTAL AND NUMERICAL INVESTIGATION OF LONG-TERM BEHAVIOUR OF MODIFIED TEXTILE-REINFORCED POLYPROPYLENE
Werner A. Hufenbach(Technische Universitat Dresden)
Oral Presentation (Continued)

Edith Maeder (Leibniz Institute of Polymer Research Dresden)
Volker Ulbricht (Technische Universität Dresden)
Dominik Branke (Technische Universität Dresden)
Markus Kaestner (Technische Universität Dresden)
Martin Pohl (Leichtbau-Zentrum Sachsen GmbH)

THE ROLE OF NITROGEN ON CARBON NANOTUBES-GRAFTED ACTIVATED CARBON FIBERS
Yu-chun Chiang (Yuan Ze University)

Experimental and Theoretical Study of the Tensile Modulus of Needle Punched Hemp Fiber Mat Composites
Mahi Fahimian (University of Manitoba)
Raghavan Jayaraman (University of Manitoba)

Static and Fatigue Property of Mode I Crack on CFRP Laminate Toughened with CNF Interlayer
Masahiro Arai (Shinshu University)
Marino Quaresimin (University of Padua)
Masaki Hojo (Kyoto University)

MULTISCALE MODEL BASED ON A FINITE FRACTURE APPROACH FOR THE PREDICTION ON DAMAGE IN LAMINATE COMPOSITES
Nicolas Carrere (École Nationale Supérieure de Techniques Avancées, Bretagne)
Nicolas Tual (Ecole Nationale Superieure des Ingenieur des Etudes et Techniques d'Armement)
Malick Diakhaté (Universite de Bretagne Occidentale)

Improving accuracy in robotized fiber placement
Maylis Uhart (Ecole Supirieure des Technologies Industrielles Avances)
Olivier Patrouix (Ecole Superieure des Technologies Industrielles Avancees)
Yannick Aoustin (Universite de Nantes)
Joseph Canou (Ecole Superieure des Technologies Industrielles Avancees)

DELAMINATION DAMAGE IN LAMINATED SHELLS
Roberta Massabo (University of Genoa)
Francesca Campi (University of Genoa)
EFFECT OF FLEXIBLE INTERPHASE ON DYNAMIC CHARACTERISTICS OF CFRP
Tatsuya Fukuda (Gifu University)
Akio Ohtani (Gifu University)
Asami Nakai (Gifu University)

INVESTIGATION OF SI-GEL-NR INTERACTION IN SI-GEL/NR VULCANIZATE AND THE EFFECT
OF PEG ON THE RUBBER VULCANIZATED
Chanchai Thongpin (Silpakorn University)

ELECTRICAL BEHAVIOR OF A CFRP UNIDIRECTIONAL LAMINATE UNDER TEMPERATURE
VARIATION
Kosuke Takahashi (Tokyo Institute of Technology)
Takahiro Fujimura (Tokyo Institute of Technology)
Kazuaki Inaba (Tokyo Institute of Technology)
Kikuo Kishimoto (Tokyo Institute of Technology)

Application of X-Web Technologies for Improved Shear Transfer in Wind Turbine Blades
Upwards of 100 Meters
Ryan Michael Barnhart (Wetzel Engineering Inc.)
Kyle Wetzel (Wetzel Engineering Inc.)

Water-Induced Shape Memory Effect of Epoxy-Based Shape Memory Polymer
Wenxin Wang (Harbin Institute of Technology)
Haibao Lu (Harbin Institute of Technology)
Yanju Liu (Harbin Institute of Technology)
Jinsong Leng (Harbin Institute of Technology)

Solvothermal Method for Recycling Hybrid Composite Materials
Armando Tibigin Quitain (Kumamoto University)
Katsuji Shibata (Hitachi Chemical Co. Ltd.)
Mitsuru Sasaki (Kumamoto University)
Motonobu Goto (Nagoya University)

FOREIGN OBJECT INDUCED FIBER UNDULATION INFLUENCE ON MECHANICAL
PROPERTIES OF COMPOSITE LAMINATE
Oral Presentation (Continued)

Henrik Herranen (Tallinn University of Technology)
Alar Kuusik (Tallinn University of Technology)
Henri Lend (Tallinn University of Technology)
Steffen Czichon (Elan-Ausy GmbH)
Jaan Kers (Tallinn University of Technology)
Marko Piirlaid (Tallinn University of Technology)

PBO fabric reinforced thermoplastic composite manufactured by solution impregnation method
Anchang Xu (Shinshu University)

USING LS-DYNA TO SIMULATE THE FORMING OF WOVEN-FABRIC REINFORCED COMPOSITES
Corey Morris (Advanced Composite Materials and Textile Research Laboratory)
Lisa Dangora (University of Massachusetts at Lowell)
James A. Sherwood (University of Massachusetts at Lowell)

THREE-DIMENSIONAL CONSTITUTIVE EQUATION OF SHAPE MEMORY POLYMERS AND THEIR COMPOSITES
Haedong Park (Seoul National University)
Woong-ryeol Yu (Seoul National University)
Philip Harrison (University of Glasgow)
Zaoyang Guo (Chongqing University)

INVESTIGATION OF SUBCRITICAL CRACK GROWTH IN GLASS FIBERS USING LOAD RELAXATION TESTS ON BUNDLES
Jacques Luc Lamon (Centre National de la recherche scientifique CNRS)

Damage resistance and damage tolerance of composite laminates with dispersed stacking sequences
Claudio Saul Lopes (IMDEA Materials)
Tamer Abdella Sebaey (Zagazig University)
Emilio V González (Universidad de Gerona)
Norbert Blanco (Universidad de Gerona)
Josep Costa (Universidad de Gerona)
Composite recycling: characterization of an end of life wind turbine blade
Justine Beausson(Technical University of Denmark)
Jakob Ilsted Bech(Technical University of Denmark)
Povl Brøndsted(Technical University of Denmark)

EFFECT OF INTER-PLY SLIDING ON THE APPEARANCE OF DEFECTS FOR MULTILAYERED COMPOSITE SHAPING
Samir Allaoui(Universite d'Orleans)
Gilles Hivet(Universite d'Orleans)
Christophe Cellard(Universite d'Orleans)

HOLLOW STRUCTURAL PRODUCT OF CONTINUOUS FIBER REINFORCED THERMOPLASTIC COMPOSITES BY HIGH CYCLE MOLDING
Koichi Bun(Kyoto Institute of Technology)
Toshihiro Motochika(Kyoto Institute of Technology)
Asami Nakai(Gifu University)
Hitoshi Kitamura(Toyobo Co. Ltd.)
Hidetoshi Sonoda(Toyobo Co. Ltd.)
Satoshi Nagoh(Toyobo Co.,Ltd.)

PROCESS MONITORING OF FRP LAMINATES BY EMBEDDED FIBER OPTIC SENSORS
Tatsuro Kosaka(Kochi University of Technology)
Akihiro Matsumoto(Kochi University of Technology)
Takuya Kajikawa(Kochi University of Technology)
Masayo Koike(Kochi University of Technology)
Kazuhiro Kusukawa(Kochi University of Technology)

INFLUENCE OF INTERPLY FRICTION ON THE FORMING OF
Malin Akermo(Royal Institute of Technology)
Ylva R Larberg(Royal Institute of Technology)
Jens Sjolander(Royal Institute of Technology)
Per Johan Hallander(Saab AB)

COMPRESSION AFTER IMPACT AND FRACTURE TOUGHNESS OF CARBON FIBER/EPOXY COMPOSITES MODIFIED WITH CARBON NANOTUBES
Marcel Siegfried (Katholieke Universiteit Leuven)  
Carmen Tola  
Stepan V. Lomov (Katholieke Universiteit Leuven)  
Ignaas Verpoest (Katholieke Universiteit Leuven)  
Larissa Gorbatikh (Katholieke Universiteit Leuven)  

POSTBUCKLING ANALYSIS OF A COMPOSITE CYLINDRICAL PANEL WITH FRAMES AND OMEGA STRINGERS  
José Reinoso (Universitat Hannover)  
Antonio Blazquez (Universidad de Sevilla)  
Federico París (Universidad de Sevilla)  

Preparations and Evaluation of Electrical Conductivity for TiB2/Al Composites by Spark Sintering Process  
Gen Sasaki (Hiroshima University)  

IMPROVEMENT OF IMPREGNATION AND MECHANICAL PROPERTIES OF CFRTP COMPOSITES BY MICRO-BRAIDED YARNS  
Patcharat Wongsriraksa (Kanazawa Institute of Technology)  
Asami Nakai (Gifu University)  
Kiyoshi Uzawa (Kanazawa Institute of Technology)  
Isao Kimpara (Kanazawa Institute of Technology)  

UNCERTAINTIES IN THE PREDICTION OF CFRP LAMINATE PROPERTIES IN THE CONTEXT OF A RELIABILITY BASED DESIGN APPROACH  
Conny Schillo (Technische Universitat Hamburg-Harburg)  
Dieter Krause (Technische Universitat Hamburg-Harburg)  

SIMULATION OF THE MECHANICAL BEHAVIOR OF A THREE DIMENSIONAL COMPOSITE  
Alain Rassineux (Universite de Technologie de Compiègne)  
Manh hung Ha (Universite de Technologie de Compiègne)  
Ludovic Cauvin (Universite de Technologie de Compiègne)  

Comparing Electromechanical Characteristics of Polymer – Carbon Nanotube and Polymer – Carbon Fibre – Carbon Nanotube Composites
Oral Presentation (Continued)

Cyrill Cattin (McGill University)
Wenjiao Liu (McGill University)
Pascal Hubert (McGill University)

ENCHANCEMENT OF MECHANICAL PROPERTIES OF CAST NANO CABONS REINFORCED A356 ALUMINIUM MATRIX COMPOSITES
Sang bok Lee (Korea Institute of Materials Science)

EFFECT OF IRON-DEPOSITED REDUCED GRAPHENE OXIDES ON THE NEAR-FIELD ELECTROMAGNETIC ABSORBING PROPERTY OF COMPOSITE FILMS
Jin woo Yi (Korea Institute of Materials Science)

SMART COMPOSITE SURFACE WITH IN-SITU TUNABLE ADHESION BEHAVIOR
Tae-hyung Kang (Seoul National University)
Seok bin Hong (Seoul National University)
Tae-jun Ko (Seoul National University)
Kyu hwan Oh (Seoul National University)
Woong-ryeol Yu (Seoul National University)

TOOL MATERIAL EFFECTS ON PROCESS INDUCED DEFORMATION OF COMPOSITE SPAR STRUCTURES
Takayuki Shimizu (Mitsubishi Heavy Industries, Ltd.)
Toshio Abe (Mitsubishi Heavy Industries, Ltd.)

EFFECTS OF POROSITY SHAPE ON THE ELECTROMECHANICAL RESPONSE OF 3-3 PIEZOELECTRIC FOAMS
Krishna S Challagulla (Laurentian University)
Benjamin V Nguyen (Laurentian University)

MODELLING CRACK PROPAGATION IN PARTICLE- REINFORCED COMPOSITES USING THE ELEMENT-FREE GALERKIN METHOD
Nelson Madalai Muthu (Indian Institute of Technology, Bombay)
Brian George Falzon (Queen's University Belfast)
Surjya Kumar Maiti (Indian Institute of Technology, Bombay)
Shahin Khoddam (Monash University)
Oral Presentation (Continued)

TENSILE AND COMPRESSION PROPERTIES OF HYBRID COMPOSITES – A COMPARATIVE STUDY
Durai prabhakaran Raghavalu thirumalai (Technical University of Denmark)

Homogenization of elastic properties of short fiber reinforced composites based on micro computer tomography data
Viktor Müller (Karlsruhe Institute of Technology)
Felix Dillenberger (Fraunhofer Institute for Structural Durability and System Reliability LBF)
Barthel Brylka (Karlsruhe Institute of Technology)
Thomas Böhlke (Karlsruhe Institute of Technology)
Robert Glöckner (Fraunhofer Institute for Structural Durability and System Reliability LBF)
Stefan Kolling (Technische Hochschule Mittelhessen)

HIGH OPTOELECTRONIC PERFORMANCE OF LAYER-BY-LAYER ASSEMBLED CARBON NANOTUBE THIN FILMS
Yong Tae Park (University of Minnesota - Twin Cities Campus)
Jaime C Grunlan (Texas A&M University)

UNEXPECTED TWISTING CURVATURE GENERATION OF BISTABLE CFRP LAMINATE DUE TO THE UNCERTAINTY OF LAY-UP SEQUENCE AND NEGATIVE INITIAL CURVATURE
Junghyun Ryu (Seoul National University)
Jong-gu Lee (Seoul National University)
Seung-won Kim (Seoul National University)
Kyu-jin Cho (Seoul National University)
Maenghyo Cho (Seoul National University)

IMPACT LOCALIZATION IN ANISOTROPIC COMPOSITE PLATES INTRUMENTED WITH A NETWORK OF PIEZOELECTRIC SENSORS
Andre luiz De aguiar Ribeiro (Universidade Estadual de Campinas)
Carlos Alberto Cimini Jr (Universidade Federal de Minas Gerais)
Niederauer Mastelari (Universidade Estadual de Campinas)

3D Woven uniform density dry preforms for the aerospace industry
Nicolas Juillard (JB Martin)
THEORETICAL FAILURE ENVELOPES OF OPEN HOLE COMPOSITE LAMINATES WITH A- AND B-BASIS ALLOWABLES ESTIMATED FROM SMOOTH SPECIMEN PROPERTIES

Jeffrey Tsewei Fong(National Institute of Standards and Technology(NIST))
Carlos Alberto Cimini Jr(Universidade Federal de Minas Gerais)
Jose daniel Diniz Melo(Universidade Federal do Rio Grande do Norte)
Nathanael Alan Heckert(National Institute of Standards and Technology(NIST))
James Filliben(National Institute of Standards and Technology(NIST))

CARBON NANOTUBES FOR IN SITU THERMOMECHANICAL AND THERMOCHEMICAL SENSING IN COMPOSITES

Kalon L Lasater(University of Delaware)
Gaurav Pandey(University of Delaware)
Erik T Thostenson(University of Delaware)

Electromechanical Characterization of Barium Titanate Coated Carbon Fibers

Christopher Bowland(University of Florida)
Zhi Zhou(University of Florida)
Henry Sodano(University of Florida)

NUMERICAL APPROACH FOR EFFECTIVE PROPERTIES OF WOOD COMPOSITES WITH PARTIAL RESIN COVERAGE OF STRANDS

Sardar Malekmohammadi(University of British Columbia)
Benjamin Tressou(Institut Pprime CNRS ISAE-ENSMA)
Carole Nadot-martin(Institut Pprime CNRS ISAE-ENSMA)
Fernand Ellyin(University of British Columbia)
Reza Vaziri(University of British Columbia)
Oral Presentation (Continued)

Molecular dynamics and the corresponding rheological response of polymer nanocomposites 1118
Dong gi Seong (Korea Institute of Materials Science)

Carbon nanostructures for flexible and high efficiency energy application 1123
Wonbong Choi (University of North Texas)

NUMERICAL APPLICATIONS AND VERIFICATION OF AN INTEGRATED FLOW-STRESS MODEL IN PROCESSING OF THERMOSET COMPOSITES 1125
Mehdi Haghshenas (University of British Columbia)
Reza Vaziri (University of British Columbia)
Anoush Poursartip (University of British Columbia)

DAMAGE CHARACTERIZATION OF TRIAXIAL BRAIDED COMPOSITES UNDER TENSION USING FULL-FIELD STRAIN MEASUREMENT 1133
Tobias Wehrkamp-richter (Technische Universitat Munchen)
Monika Humbs (Technische Universitat Munchen)
David Schultheiss (Technische Universitat Munchen)
Roland Hinterhoelzl (Technische Universitat Munchen)

NONLINEAR RESPONSE OF SHELLS TO BLAST AND IMPACT 1141
Serge Abrate (Southern Illinois University at Carbondale)

DESIGN, MANUFACTURING AND TESTING OF A CYLINDRICAL DRUM-SHELL USING A SANDWICH STRUCTURE 1153
Ajith Damodaran (Anna University)
Larry Lessard (McGill University)
Suresh babu Annamalai (Anna University)
Gary Scavone (McGill University)
Hossein Mansour (McGill University)

COMPARATIVE CHARACTERIZATION OF THE TC-250 OUT-OF-AUTOCLAVE MATERIAL MADE BY HAND LAY-UP AND AUTOMATED FIBER PLACEMENT PROCESSES 1159
Kulbir Singh Madhok (Concordia University)
Ali Naghashpour (Concordia University)
Suong Hoa (Concordia University)
Oral Presentation (Continued)

Investigation of Strength Recovery of Recycled Heat Treated Glass Fibres Through Chemical Treatments
Eduardo Saez Rodriguez (University of Strathclyde)
James Thomason (University of Strathclyde)
Liu Yang (University of Strathclyde)

CURE MONITORING OF AN AUTOCLAVE MANUFACTURED INDUSTRIAL PART: ADDED VALUE OF COMPLEMENTARY INSTRUMENTATION
Francis Collombet (Institut Clément Ader)
Geert Luyckx (Ghent University)
Camille Sonnenfeld (Vrije Universiteit Brussel)
Yves-henri Grunevald
Yves Angel Davila (Institut Clément Ader)
Mauricio Torres (Instituto Politecnico Nacional)
Xavier Jacob
Kuo-ting Wu (National Research Council Canada)
Samuel Rodriguez (Universite Paul Sabatier (Toulouse III))
Bernard Douchin (Institut Clément Ader)
Laurent Crouzeix (Institut Clément Ader)
Robert Bazer-bachi (Institut Clément Ader)
Thomas Geernaert (Vrije Universiteit Brussel)
Joris Degrieck (Universiteit Gent)
Francis Berghmans (Vrije Universiteit Brussel)

Modeling and characterization of thermoplastic composites PEEK/CARBON
Kouwonou Kodjo Dodji (Ecole de Technologie Superieure)
Tan Pham (École de technologie supérieure - Université du Québec)
Gilbert Lebrun (University of Quebec at Trois-Rivieres)

SURFACE TREATMENT OF CARBON FIBERS BY ULTRAVIOLET LIGHT+OZONE: ITS EFFECT ON FIBER SURFACE AREA AND TOPOGRAPHY
Michael Rich (Michigan State University)
Lawrence T Drzal (Michigan State University)
Edward K Drown (Michigan State University)
THERMAL PROPERTIES AND STABILITY OF PET-HEMP FIBERS COMPOSITES
Aimé sylvain Fotso Talla(University of Quebec at Chicoutimi)
Francois Godard(University of Quebec Abitibi-Temiscamingue)
Fouad Erchiqui(University of Quebec at Chicoutimi)

Stiffness Prediction in Green Composites Using Homogenization techniques
Asghar Arab(Universitat des Saarlandes)
Markus Stommel(Universitat des Saarlandes)
Lennart Wallström(Lulea University of Technology)
Janis Varna(Lulea University of Technology)

A study of consolidation equilibrium in composite parts made by flexible injection
Joffrey Renaud(Ecole Polytechnique de Montreal)
Philippe Causse(Ecole Polytechnique de Montreal)
Edu Ruiz(Ecole Polytechnique)
François Trochu(Ecole Polytechnique de Montreal)

CONDUCTIVITY AND DIELECTRIC RESPONSE OF CARBON-BASED COMPOSITES IN A BROAD FREQUENCY RANGE
Dmitry Nuzhnyy(Academy of Sciences)

MODELING OF DEFORMATION OF LAYERS IN THERMOPLASTIC COMPOSITES MANUFACTURED BY AUTOMATED FIBER PLACEMENT
Hossein Ghayoor(Concordia University)
Suong Hoa(Concordia University)

THERMO-MECHANICAL PERFORMANCE AND FATIGUE CYCLING OF NOVEL BISMALEIMIDE-BASED SHAPE MEMORY POLYMER RESIN AND COMPOSITES
Gyaneshwar P. Tandon(University of Dayton)
Thao T Gibson(University of Dayton)
Richard Coomer(Southwestern Ohio Council for Higher Education)
Jeff W Baur(Air Force Research Laboratory)
Oral Presentation (Continued)

INDUSTRIAL APPLICATION OF FIBRE ORIENTATION PREDICTIONS 1252
Dave Brands (SABIC)
Claire Martin (SABIC)
Warden Schijve

the research progress for the structural and functional material of foamed metal in the preparation and application
Keju Ji (Nanjing University of Aeronautics and Astronautics)

SWCNT FUNCTIONALIZATION FOR OPTIMIZED ELECTRICAL CONDUCTIVITY OF EPOXY MATRICES 1268
Yadienka Martinez rubi (National Research Council Canada)
Jose Miguel Gonzalez-dominguez (Consejo Superior de Investigaciones Cientificas (CSIC))
Christopher Kingston (National Research Council Canada)
Alejandro Anson-casaos (Consejo Superior de Investigaciones Cientificas (CSIC))
Maria Teresa Martinez (Consejo Superior de Investigaciones Cientificas (CSIC))
Benoit Simard (National Research Council Canada)

An experimental investigation on buckling behavior of variable angle tow laminates subjected to uniform compression load
Aymen Marouene (Ecole Polytechnique de Montreal)

PREPARATION AND CHARACTERIZATION OF NANOCELLULOSE/PVA GREEN COMPOSITES 1278
Hitoshi Takagi (University of Tokushima)

Mechanical properties of composite sandwich structures with core or face sheet modifications 1284
Edith roland Fotsing (Ecole Polytechnique de Montreal)
Matthieu Sola (Ecole Polytechnique de Montreal)
Edu Ruiz (Ecole Polytechnique)
Annie Ross (Ecole Polytechnique de Montreal)

Predicting the Constitutive Behavior of Biaxial Braided Composites using Beam Unit Cells 1296
Joerg Cichosz (Technische Universität Munchen)
Johannes Bueckle (Technische Universität Munchen)
Roland Hinterhoelzl (Technische Universität Munchen)
Markus Wolfahrt (Polymer Competence Center Leoben)

**IN SITU SEM MICROBENDING TESTS OF ALUMINIUM ALLOYS AND ALUMINIUM MATRIX COMPOSITES**

Pilar Rodrigo (Universidad Rey Juan Carlos)
Belén Torres (Universidad Rey Juan Carlos)
Lustolde Martínez Laorden (Universidad Rey Juan Carlos)
Joaquin Rams (Universidad Rey Juan Carlos)

Arnaud Dereims (Ecole Nationale Superieure des Mines de St-Etienne)
Sylvain Drapier (Ecole Nationale Superieure des Mines de St-Etienne)
Jean-michel Bergheau (Ecole Nationale d'Ingenieurs de Saint-Etienne)
Patrick De Luca

**INDUSTRIAL SIMULATION OF LIQUID RESIN INFUSION BY THE FINITE ELEMENT METHOD**

Paul A Trudeau (Bombardier)
Hasan Salek (Bombardier)
Marc-andre Jette (Bombardier)
Pascal Hubert (McGill University)
Cristian Demaria (McGill University)
Genevieve Palardy (McGill University)

Spyros Anastasios Tsampas (Swerea SICOMP)
Patrik Sven Fernberg (Swerea SICOMP)
Giovanni Camino (Polytechnic Institute of Turin)
Marco Monti
Per Blomqvist

**ANALYSIS OF CARBON NANOTUBE INTEGRATED COMPOSITE STRUCTURES USING MULTISCALE APPROACH**

Zeaid Hasan (Arizona State University)
Aditi Chattopadhyay (Arizona State University)
Oral Presentation (Continued)

Cytidine Functionalization Promotes Synergistic Mechanical Properties in Nacre-Mimetic Nanocomposites
Lahja Martikainen (Aalto University)
Andreas Walther (Aachen University)
Olli Ikkala (Aalto University)

G-CONTROL FATIGUE TESTING OF DEBONDED SANDWICH COMPOSITES
Marcello Manca (Technical University of Denmark)
Christian Berggreen (Technical University of Denmark)
Leif A Carlsson (Florida Atlantic University)

FATIGUE DELAMINATION: A COMPARISON BETWEEN VIRTUAL CRACK CLOSURE AND COHESIVE ZONE SIMULATION TECHNIQUES
Gregorio Giuliese (University of Parma)
Alessandro Pirondi (University of Parma)
Fabrizio Moroni (University of Parma)
Andrea Bernasconi (Polytechnic Institute of Milan)
Azhar Jamil (Polytechnic Institute of Milan)
Ali Nikbakh (University of Bologna)

TITANIUM ENHANCED SINTERING THROUGH LIQUID PHASE SINTERING
Evan Schumann (ICMCB)
Mélanie Majimel (ICMCB)
Jean-louis Bobet (ICMCB)
Jean-françois Silvain (ICMCB)

TRANSITIONAL BEHAVIOUR OF PREPREGS IN AUTOMATIC FIBRE DEPOSITION PROCESSES
Dmitry Ivanov (University of Bristol)
Carwyn Ward (University of Bristol)
Kevin Potter (University of Bristol)

Hydrogen adsorption characteristics of the particles reinforced phenolic foams
Seung a Song (Chonbuk National University)
Oral Presentation (Continued)

Seong su Kim (Chonbuk National University)

EFFECT OF SUBSTRATE SURFACE MORPHOLOGY ON FATIGUE BEHAVIOUR OF ADHESIVELY BONDED CARBON FIBRE REINFORCED PEEK COMPOSITES
Michelle Salvia (Ecole Centrale de Lyon)
Réda el hak Ourahmoune (Ecole Centrale de Lyon)
Nadir Mesrati (Ecole Nationale Polytechnique)
Thomas Mathia (Ecole Centrale de Lyon)

INFLUENCE OF IMPACT AND STRAIN RATE ON THE RESPONSE OF ADHESIVELY BONDED SINGLE LAP JOINTS
Babak Soltannia (Dalhousie University)
Babak Ahmadi moghadam (Dalhousie University)
Farid Taheri (Dalhousie University)

DESIGN OF THE FIBER-WINDING LIGHTWEIGHT STRUCTURE INSPIRED BY BEETLE ELYTRA AND ITS MECHANICAL PROPERTIES
Ce Guo (Nanjing University of Aeronautics and Astronautics)
Yi Zhou (Nanjing University of Aeronautics and Astronautics)
Dong Li (Nanjing University of Aeronautics and Astronautics)

EFFECT OF NAPS WITH ANISOTROPIC ORIENTATION BETWEEN LAYERS ON MECHANICAL PROPERTIES OF WOVEN COMPOSITES
Jun Hirai (Tsudakoma Corporation)
Akio Ohtani (Gifu University)
Asami Nakai (Gifu University)
Hiroyuki Hamada (Kyoto Institute of Technology)

Texture sharp transition mechanism of pyrocarbon based on Monte Carlo
Qingbo Huang (Shanghai University)
Ruicheng Bai (Shanghai University)
Aijun Li (Shanghai University)
Hong Li (Shanghai University)
Musu Ren (Shanghai University)
Jinliang Sun (Shanghai University)
Oral Presentation (Continued)

EVALUATION OF LOADING RATE DEPENDENCE ON FRACTURE BEHAVIOR OF CFRP LAMINATE WITH HIGH SPEED IMAGING
Hideaki Kusano (Shimadzu Corporation)
Yoshiyasu Hirano (Japan Aerospace Exploration Agency)
Akinori Yoshimura (Japan Aerospace Exploration Agency)
Yuichiro Aoki (Japan Aerospace Exploration Agency)
Yutaka Iwahori (Japan Aerospace Exploration Agency)

A Study of the Quality of Complex Parts Made Using the Mouldless VARTM Method
Chris Larose Polowick (Carleton University)

Structural Methods For Composites in the Presence of Porosity/Voids
Guillaume Seon (University of Texas at Arlington)
Yuri G Nikishkov (University of Texas at Arlington)
Andrew Makeev (University of Texas at Arlington)

Influence of crosslink ratio on the mechanical properties of polymeric nanocomposites and interphase: A molecular dynamics simulation
Byungjo Kim (Seoul National University)
Joonmyung Choi (Seoul National University)
Suyoung Yu (Seoul National University)
Seunghwa Yang (Dong-A University)
Maenghyo Cho (Seoul National University)

Reducing use of styrene monomers in unsaturated polyester resins
Christopher Hansen (University of Massachusetts at Lowell)
Richard A Poillucci (University of Massachusetts at Lowell)

EVALUATION OF THE IMPREGNATION CHARACTERISTICS OF THE CARBON FIBER REINFORCED COMPOSITES USING DISSOLVED POLYPROPYLENE
Song hee Han (Chonbuk National University)
Hyun ju Oh (Chonbuk National University)
Seong su Kim (Chonbuk National University)
Oral Presentation (Continued)

Multifunctional composite sandwich structures utilizing embedded microvascular networks 1482
Christopher Hansen (University of Massachusetts at Lowell)
Jordan Tye (University of Massachusetts at Lowell)

MODELING 4-POINT BENDING OF THIN CARBON-EPOXY LAMINATES 1490
David Thibaudeau (Royal Military College of Canada)
Diane Wowk (Royal Military College of Canada)
Catharine Marsden (Royal Military College of Canada)

Using Spiral Notch Torsion Test to Evaluate Fracture Toughness of Fiber-Reinforced Polymeric Composites 1502
Jy-an John Wang (Oak Ridge National Laboratory)
Ting Tan (University of Vermont)
Hao Jiang (Oak Ridge National Laboratory)

DEPENDENCE OF INTERFACE PLY ORIENTATION ON DELAMINATION GROWTH DIRECTIONALITY AND MIGRATION 1511
Carla Canturri (Imperial College of Science, Technology and Medicine, University of London)
Emile Smith Greenhalgh (Imperial College of Science, Technology and Medicine, University of London)
Silvestre T Pinho (Imperial College of Science, Technology and Medicine, University of London)

Micro-crack development in carbon fiber battery in cyclic charge/discharge 1519
Andrejs Pupurs (Lulea University of Technology)
Janis Varna (Lulea University of Technology)

MECHANISMS OF STRAIN INDUCED ALIGNMENT OF CARBON NANOTUBES (CNT): PROCESS SCALE-UP AND QUASI-CONTINUOUS HIGHLY ALIGNED CNT MATERIAL 1529
Richard Liang (Florida State University)

FATIGUE DAMAGE CHARACTERIZATION IN SHORT GLASS FIBER REINFORCED POLYAMIDE-66 1537
Muhamad fatikul Arif (Arts et Metiers Paris Tech)
Nicolas Saintier (Ecole Nationale Superieure d'Arts et Metiers de Paris)
Fodil Meraghni (Ecole Nationale Superieure d'Arts et Metiers de Paris)
Yves Chemisky (Arts et Metiers ParisTech)
Oral Presentation (Continued)

Joseph Fitoussi (Ecole Nationale Superieure d'Arts et Metiers de Paris)
Gilles Robert (Solvay Engineering Plastics)

EFFECT OF TEXTILE ARCHITECTURE ON ENERGY ABSORPTION OF WOVEN FABRICS
SUBJECT TO BALLISTIC IMPACT
Cheng-chou Eric Yang (University of Melbourne)
Phuong Tran (University of Melbourne)
Tuan Ngo (University of Melbourne)
Priyan Mendis (University of Melbourne)
Bill Humphries (CSIRO)

PURE MOMENT APPROACH TO DETERMINE MIXED-MODE FRACTURE TOUGHNESS OF
SANDWICH FACE/CORE INTERFACES
Christian Berggreen (Technical University of Denmark)
George A Kardomeas (Georgia Institute of Technology)
Leif A Carlsson (Florida Atlantic University)

FERROMAGNETIC MICROWIRES AND THEIR MULTIFUNCTIONAL POLYMER COMPOSITES
Faxiang Qin (University of Bristol)
Hua-xin Peng (University of Bristol)

High-pressure RTM process variants for manufacturing of carbon fiber reinforced composites
Raman Chaudhari (Fraunhofer Institute for Chemical Technology (ICT))
Michael Karcher (Fraunhofer Institute for Chemical Technology (ICT))
Peter Elsner (Fraunhofer Institute for Chemical Technology (ICT))
Frank Henning (Fraunhofer Institute for Chemical Technology (ICT))

Improving Blast Resistance of Highway Bridges by Using FRP
Yuxin Pan (Sichuan University)
Moe m s Cheung (Sichuan University)

DELAMINATION ARREST FASTENERS IN AIRCRAFT COMPOSITE STRUCTURES
Kuen-yuan Lin (University of Washington)
Luke I Richard (University of Washington)
Wenjing Liu (University of Washington)
Oral Presentation (Continued)

Heat Resistance Properties of FRTP Composed of In-situ Porimerization PA6 and CF and GF Fabrics 1581
Akiko Hirabayashi (Nihon University)
Goich Ben (Nihon University)
Hikaru Ozeki

Study on Dynamic Response of FRP Float for Light Seaplane 1589
Kazuki Wakizaka (Nihon University)
Yoshio Aoki (Nihon University)
Akihisa Tabata (Nihon University)
Goich Ben (Nihon University)

Interlaminar shear strength of C-SiC based composites reinforced with heat treated C fibers 1597
Jixiang Dai (Dalian University of Technology)
Zhiqiang Wei (Dalian University of Technology)
Jian Li (Dalian University of Technology)
Zhaofu Zhang (Dalian University of Technology)
Jianjun Sha (Dalian University of Technology)

Comparison of mechanical properties between FRTP using in-situ polymerizable PA6 and FRP using first curable epoxy resin 1606
Kazuhiro Sakata (Nihon University)
Goich Ben (Nihon University)
Hirofumi Nishida

Adhesive bond testing between composite laminates by laser shockwave loading 1615
Jean-pierre Monchalin (National Research Council Canada)

A CFD-model for prediction of unintended porosities in metal matrix composites 1625
Shizhao Li (Technical University of Denmark)
Jon Spangenberg (Technical University of Denmark)
Jesper Henri Hattel (Technical University of Denmark)

Multi-Objective infusion optimization in Vacuum Assisted Resin Transfer Moulding (VARTM) using genetic algorithms 1633
Oral Presentation (Continued)

Giacomo Struzziero (Cranfield University)
Alex Skordos (Cranfield University)

THE EFFECT OF CYCLIC SOLUTION TEMPERATURE ON FLEXURAL PROPERTY OF UNSATURATED POLYESTER RESIN UNDER LIQUID AND VAPOR PHASE
Pradchar Pradyawong (Tokyo Institute of Technology)
Masatoshi Kubouchi (Tokyo Institute of Technology)
Saiko Aoki (Tokyo Institute of Technology)

MAGNETOELASTIC RESPONSES OF A BI-LAYERED COMPOSITE CYLINDER WITH AN EMBEDDED TIME-HARMONIC EIGENSTRAIN
Hamid Akbarzadeh (University of New Brunswick)
Armin Abedini (University of New Brunswick)
Zengtao Chen (University of New Brunswick)

Determination of Interfacial Shear Strength in Epoxy/Glass Composites by Multi-Fiber Fragmentation Test (MFFT)
Edward David Mccarthy (National Institute of Standards and Technology (NIST))
Jae hyun Kim (National Institute of Standards and Technology (NIST))
Nathanael Alan Heckert (National Institute of Standards and Technology (NIST))
Stefan D. Leigh (National Institute of Standards and Technology (NIST))
Gale A Holmes (National Institute of Standards and Technology (NIST))
Jeffrey W. Gilman (National Institute of Standards and Technology (NIST))

Numerical Design of Composite Materials Through Multi-Scale Computer Simulation
John Leach (Battelle Memorial Institute)
James Mackiewicz

Bio-inspired nacre-like composites via simple, fast, and versatile techniques such as doctor-blading
Seyed mohammad Mir kcalaf valashani (McGill University)
Francois Barthelat (McGill University)

PULL-OFF TEST AND SIMULATION OF DUCTILE ADHESIVE BONDED COMPOSITE T-JOINTS
Hao Cui (Delft University of Technology)
Oral Presentation (Continued)

Sotiris Koussios (Delft University of Technology)
Yulong Li (Northwestern Polytechnical University)

Interlaminar fatigue crack growth in carbon fiber reinforced composites 1689
Steffen Stelzer (Montanuniversitat Leoben)
Rhys Jones (Monash University)
Andreas J. Brunner (Empa, Swiss Federal Laboratories for Materials Science & Technology)

PART II: PHOSPHORYLATED SOL-GEL FLAME RETARDANT COATING FOR POLYESTER FABRIC 1698
Ahmed Abdeen Younis (National Institute for Standards)

Prediction of fibre orientation in short glass fibre reinforced composite injection moulding 1706
Fin Caton-rose (University of Bradford)
Peter Hine (University of Leeds)
Bushra Parveen (University of Bradford)

Scalable production of epoxy based nanocomposites and hierarchical composites with very high CNT loadings 1714
Tomi Herceg (Imperial College of Science, Technology and Medicine, University of London)
Mohd shukur Zainol abidin (Imperial College of Science, Technology and Medicine, University of London)
Clara Delfour (Institut Catholique d’Arts et Metiers Lille)
Emile Smith Greenhalgh (Imperial College of Science, Technology and Medicine, University of London)
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)
Milo S p Shaffer (Imperial College of Science, Technology and Medicine, University of London)

The netting analysis as a limit case of the laminated structure theory 1724
Georges Verchery (Pluralis)

MICROSTRUCTURAL EVOLUTION OF METAL MATRIX COMPOSITES BY IN SITU HIGH ENERGY X-RAY DIFFRACTION 1732
Guillaume Geandier (Institut Jean Lamour - UMR 7189 CNRS - Universite de Lorraine)
Matthieu Salib (Institut Jean Lamour - UMR 7189 CNRS - Universite de Lorraine)
Mickael Mourot (Institut Jean Lamour - UMR 7189 CNRS - Universite de Lorraine)
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Oral Presentation (Continued)

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Elisabeth Aeby-gautier (Centre National de la recherche scientifique CNRS)
Sabine Denis (Institut Jean Lamour - UMR 7189 CNRS - Universite de Lorraine)

Characterization of short glass-fibre reinforced polypropylene composites in tension and compression
Michael Jerabek (Borealis Polyolefine GmbH)
Simon Gastl (Borealis Polyolefine GmbH)
Anna Maria Hartl (Johannes Kepler University Linz)
Martin Reiter (Johannes Kepler University Linz)

A STUDY ON MULTI-AXIAL FORCE MEASUREMENT OF POLYMER SKINS USING FBG SENSOR
Oh min Kwon (Andong National University)
Hui yun Hwang (Andong National University)
Sang kyun Hwang (Andong National University)
Hyun ju Oh (Chonbuk National University)
Seong su Kim (Chonbuk National University)

A STUDY ON THE TACTILE SENSING SYSTEM USING PIEZOELECTRIC FIBER
Sang kyun Hwang (Andong National University)
Hui yun Hwang (Andong National University)
Oh min Kwon (Andong National University)
Seong su Kim (Chonbuk National University)

A STUDY ON THE DEVELOPMENT OF PREDICTION EQUATION OF PIEZOELECTRIC CHARACTERISTICS FOR GLASS FIBER EPOXY COMPOSITES
Hui yun Hwang (Andong National University)

RESISTIVE HEATING STRUCTURAL DAMAGE DETECTION IN NANOCOMPOSITES
Roberto Guzman de villoria (IMDEA Materials)
Vanesa Martinez (IMDEA Materials)

SIMULATION OF FABRIC DEFORMATION UNDER MOLDING PROCESS
Oral Presentation (Continued)

Lejian Huang (Kansas State University)
Youqi Wang (Kansas State University)
Yuyang Miao (Kansas State University)
Chian-fong Yen
Harun Bayraktar (Albany Engineered Composites)
Jon Goering (Albany Engineered Composites)

RESIDUAL COMPRESSION STRENGTH ASSESSMENT OF IMPACTED LAMINATES BASED ON C-SCAN DATA
Yu Yang (University of Nottingham)
Xiasheng Sun (China Aviation Industry Corp)
Shuguang Li (University of Nottingham)

Integration of linear thermoelectric modules composed of low and intermediate temperature p- and n-type metallic semiconductors into combustion chamber walls
Minoru Taya (University of Washington)

EFFECT OF EMBEDMENT LENGTH ON THE PERFORMANCE OF SHEAR-STRENGTHENED RC BEAMS WITH L-SHAPED CFRP PLATES
Amir Mofidi (McGill University)
Sébastien Thivierge (Ecole de Technologie Superieure)
Omar Chaallal (Ecole de Technologie Superieure)
Yixin Shao (McGill University)

PLY WAVINESS DETECTION AND MESH GENERATION FOR COMPOSITES BASED ON X-RAY COMPUTED TOMOGRAPHY
Yuri G Nikishkov (University of Texas at Arlington)
Gennadiy Nikishkov (University of Aizu)
Andrew Makeev (University of Texas at Arlington)

Processing effect on the damage tolerance of randomly-oriented strands thermoplastic composites
Benoit Landry (McGill University)
Pascal Hubert (McGill University)
Oral Presentation (Continued)

Realistic FEA modeling of 3D woven composites on mesoscale
Andrew Drach (University of New Hampshire)
Borys Drach (University of New Hampshire)
Igor Tsukrov (University of New Hampshire)
Harun Bayraktar (Albany Engineered Composites)
Jon Goering (Albany Engineered Composites)

CURE MONITORING OF CFRP: ELECTRICAL IMPEDANCE ANALYSIS
Philippe Marguerès (Institut Clément Ader)
Philippe A Olivier (Institut Clément Ader)
Thierry Camps
Sonia Sassì (Institut Clément Ader)
Mahamadou Mounkailà

EFFECT OF MORPHOLOGY ON FRACTURE TOUGHNESS OF THERMOPLASTIC/THERMOSET/CLAY HYBRID NANOCOMPOSITES
Sina Chaeichian (Concordia University)
Paula Wood-adams (Concordia University)
Suong Hoa (Concordia University)

A Multifunctional Microporous Polymer Nanocomposite with Graphene Nanoplatelets
Diandra Rollins (Michigan State University)
Lawrence T Drzal (Michigan State University)

DAMAGE PHENOMENA OF FIBRE REINFORCED COMPOSITES UNDER VHCF-LOADING
Ilja Koch (Technische Universität Dresden)
Karl Schulte (Technische Universität Hamburg-Harburg)
Maik Gude (Technische Universität Dresden)
Werner A. Hufenbach (Technische Universität Dresden)
Roman Koschichow (Technische Universität Dresden)
Julia Knoll (Technische Universität Hamburg-Harburg)

STABILITY OF t-ZrO2 PARTICLES IN ALUMINA-ZIRCONIA COMPOSITES: PART. 1
COMPETITION BETWEEN SIZE AND STRAIN EFFECT
Camille Rabache (Ecole Centrale de Paris)
Guillaume Bouchet
Guillaume De calan
Jean-michel Kiat(Ecole Centrale de Paris)
Nicolas Guiblin(Ecole Centrale de Paris)
Florence Porcher

**IMPACT OF LAYUP RATE ON QUALITY OF FIBER STEERING/CUT-RESTART IN AUTOMATED FIBER PLACEMENT PROCESS**
Jihua Chen(National Research Council Canada)
Teresa Chen-keat
Mehdi Hojjati(Concordia University)
Alexander J Vallee
Marc-andre Octeau(Natural Resources Canada)
Ali Yousefpour(National Research Council Canada)

**SQUEEZE FLOW OF RANDOMLY-ORIENTED STRANDS THERMOPLASTIC COMPOSITES**
Gilles-philippe Picher-martel(McGill University)
Arthur Levy(McGill University)
Pascal Hubert(McGill University)

**Numerical and experimental analyses of multiple delaminations in curved composite laminates**
Andrea Baldi(Polytechnic Institute of Milan)
Alessandro Airoldi(Polytechnic Institute of Milan)
Paolo Belotti(Polytechnic Institute of Milan)
Paolo Bettini(Polytechnic Institute of Milan)
Giuseppe Sala(Polytechnic Institute of Milan)

**EXPERIMENTAL AND NUMERICAL STUDIES OF HYGROTHERMAL AGING OF BIO-COMPOSITE SHORT FIBER HEMP / POLYPROPYLENE**
Karim Bensalem(University of Quebec at Trois-Rivieres)
Lotfi Touba(University of Quebec at Trois Rivieres)
Jean-christophe Cuilliere(University of Quebec at Trois Rivieres)
Vincent Francois(University of Quebec at Trois-Rivieres)
Papa birame Gning(Universite de Bourgogne)
FORMING OF NONCRIMP FABRIC COMPOSITES WITH EMBEDDED CABLING 1893
Alexander Stefanov Petrov(University of Massachusetts at Lowell)
Jennifer L. Gorczyca(University of Massachusetts at Lowell)
James A. Sherwood(University of Massachusetts at Lowell)
Lisa Dangora(University of Massachusetts at Lowell)
Cynthia Mitchell(University of Massachusetts at Lowell)

MODELING OF MULTIPLE DELAMINATIONS IN SHELLS USING XFEM 1901
Jim Brouzoulis(Chalmers University of Technology)
Martin Fagerström(Chalmers University of Technology)

REINFORCEMENT OF PARTIALLY CURED AEROSPACE STRUCTURES WITH B-STAGED PATCHES 1910
Julia Studer(Fachhochschule Nordwestschweiz)
Kunal Masania(Fachhochschule Nordwestschweiz)
Clemens Dransfeld(University of Applied Sciences and Arts Northwestern Switzerland)
Nicolas Eguemann(Cross Composite AG)

A MESO-SCALE NUMERICAL APPROACH FOR DAMAGE AND FAILURE IN SHORT FIBRE REINFORCED CERAMICS 1918
Alessandro Airoldi(Polytechnic Institute of Milan)
Paolo Iavarone(Polytechnic Institute of Milan)
Luca Di Landro(Polytechnic Institute of Milan)
Gabriele Imbalzano(Polytechnic Institute of Milan)
Marco Orlandi(Brembo SGL Carbo Ceramic Brakes)
Massimiliano Valle(Petroceramics spa)

Recent Progress on Benchmarking Cracking and Damage Models for Fibre Reinforced Polymer Composites 1930
Sam Kaddour(QinetiQ Ltd)
Paul A Smith(University of Surrey)
Michael John Hinton(National Composites Centre)
Shuguang Li(University of Nottingham)
Oral Presentation (Continued)

CHALLENGING LESSONS FROM THE SECOND WORLD-WIDE FAILURE EXERCISE (WWFE-II): 1941
Sam Kaddour (QinetiQ Ltd)
Michael John Hinton (National Composites Centre)

THE BEHAVIOUR OF MAGNETO-RHEOLOGICAL ELASTOMERS UNDER EQUI-BIAXIAL TENSION 1953
Philip Harrison (University of Glasgow)
Gerlind Schubert (University of Glasgow)
Zaoyang Guo (Chongqing University)

FATIGUE LIFE ASSESSMENT OF INJECTION-MOLDED REINFORCED SHORT FIBRE THERMOPLASTICS: NOTCH EFFECTS 1964
Carole Nadot-martin (Institut Pprime CNRS ISAE-ENSMA)
Sylvie Castagnet (Institut Pprime CNRS ISAE-ENSMA)
Andrea Bernasconi (Polytechnic Institute of Milan)
Edoardo Conrado (Polytechnic Institute of Milan)
Yves Nadot (Institut Pprime CNRS ISAE-ENSMA)

Design and structural feasibility study of a lightweight floor system for renovation 1966
Sven De sutter (Vrije Universiteit Brussel)
Tine Tysmans (Vrije Universiteit Brussel)
Olivier Remy (Vrije Universiteit Brussel)

EFFECT OF FIBER VOLUME FRACTION AND PROCESS ORIENTATION ON MODULES OF POLYETHYLENE GLASS FIBER COMPOSITE FIBER 1975
Amir Khorsand (University of Manitoba)
Jayaraman Raghvan (University of Manitoba)

HIGH-PERFORMANCE EPOXY HYBRID NANO COMPOSITES MODIFIED BY NANOCLAY AND PES 1982
Boming Zhang (Beihang University)
Yang Wang (Beihang University)

CONDUCTIVE POLYANILINE NANO COMPOSITES: ELECTROCHROMIC BEHAVIOR, ELECTROCHEMICAL ENERGY STORAGE AND GIANT MAGNETORESISTANCE SENSOR 1990
CHARACTERIZING VISCOELASTIC PROPERTIES OF CURING EPOXY FROM PRE-GELATION TO FULL CURE 1997
Ryan J Thorpe(Convergent Manufacturing Technologies Inc.)
Anoush Poursartip(University of British Columbia)

DEVELOPMENT AND PROCESSING OF INTERMEDIATE MATERIAL FOR CONTINUOUS FIBER REINFORCED THERMOPLASTIC COMPOSITES 2003
Kazuhiro Nakazawa(Kyoto Institute of Technology)
Toshihiro Motochika(Kyoto Institute of Technology)
Mitsurou Takagi(Kaji Group Co. Ltd)
Akio Ohtani(Gifu University)
Asami Nakai(Gifu University)

MODELING AND SIMULATION OF SLOTTED WAVEGUIDE ANTENNA STIFFENED STRUCTURES 2012
Woon kyung Kim(Virginia Polytechnic Institute and State University (Virginia Tech))
Robert A Canfield(Virginia Polytechnic Institute and State University (Virginia Tech))
William G Baron(Air Force Research Laboratory)
James M Tuss(Air Force Research Laboratory)
Jason E Miller(Air Force Research Laboratory)

PREDICTION METHOD OF INTERNAL STRUCTURE FOR DESIGNING BRAIDED COMPOSITES WITH THERMOSET RESIN 2020
Masaru Imamura(Kyoto Institute of Technology)
Ryo Morinaga(Kyoto Institute of Technology)
Akio Ohtani(Gifu University)
Asami Nakai(Gifu University)

Effect of foam shape and piezoelectric material properties on the electromechanical response of 3-3 piezoelectric foams 2028
Oral Presentation (Continued)

Krishna S Challagulla (Laurentian University)
Jaspreet Singh (Laurentian University)
T.a. Venkatesh (State University of New York at Stony Brook)

MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ISOTACTIC POLYPROPYLENE REINFORCED WITH TiO2 NANOPARTICLES
Ahmad Zohre vand (Ecole Polytechnique de Montreal)
Abdellah Ajji (Ecole Polytechnique de Montreal)
Frej Mighri (Laval University)

CONSOLIDATION OF BRAID-BASED CFRP STRUCTURES
Martina Bulat (Universitat Stuttgart)
Larissa Von wascinski (Universitat Stuttgart)
Peter Middendorf (Universitat Stuttgart)
Hartmut Roedel (Technische Universitat Dresden)

PIEZORESISTANCE CHARACTERIZATION OF PVDF-MWNT NANO COMPOSITES
Reza Rizvi (University of Toronto)
Hani E Naguib (University of Toronto)

NUMERICAL SIMULATION OF DYNAMIC YARN PULL-OUT PROCESS
Habiburrahman Ahmadi (Kansas State University)
Youqi Wang (Kansas State University)
Yuyang Miao (Kansas State University)
Xiaojiang Jack Xin (Kansas State University)
Chian fong Yen (US Army Research Laboratory)

Rotordynamics of tapered composite driveshaft based on a Lagrangian finite element
Majed Almusiman (Concordia University)
Rajamohan Ganesan (Concordia University)

COUPLING OF PLANAR GROWTH AND MATRIX CRACKING IN MODE III DELAMINATION TOUGHNESS TESTING
Allison Lynne Johnston (Syracuse University)
Barry D Davidson (Syracuse University)
ANALYSIS OF FLEXIBLE CLAMPING IN TENSILE TESTS OF MULTIDIRECTIONAL LAMINATES 2092
Faustino Mujika(Universidad del Pais Vasco)
Neftali Carbajal(Universidad del Pais Vasco)
Gustavo Vargas Silva(Universidad del Pais Vasco)

STRAIN-SOFTENING RESPONSE OF LAMINATED COMPOSITES UNDER COMPRESSION 2103
Navid Zobeiry(University of British Columbia)
Reza Vaziri(University of British Columbia)
Anoush Poursartip(University of British Columbia)

SENSOR GUIDED CURE PROCESSES – A STUDY OF PRODUCTIVITY AND QUALITY OPTIMIZATION POTENTIAL 2111
Nico Liebers(Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))
Daniel Stefaniak(Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))
Markus Kleineberg(Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))
Martin Wiedemann(Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

Nanoindentation of a carbon-fibre composites microstructure: Interphase characterisation and the effect of residual thermal stress 2120
Mark Hardiman(University of Limerick)
Conor T. McCarthy(University of Limerick)

FORM-FLEXIBLE HEATING DEVICES FOR INTEGRATION IN A PREFORM GRIPPER 2130
Holger Kunz(Technische Universität Carolo-Wilhelmina Braunschweig)
Christian Löchte(Technische Universität Carolo-Wilhelmina Braunschweig)
Fabian Fischer(Technische Universität Carolo-Wilhelmina Braunschweig)
Klaus Dröder(Technische Universität Carolo-Wilhelmina Braunschweig)
Klaus Diiger(Technische Universität Carolo-Wilhelmina Braunschweig)

Crush Response of 2D and 3D Hybrid Woven Composites 2142
Mark Pankow(North Carolina State University)
Anthony M Waas(University of Michigan - Ann Arbor)
Chian-fong Yen
Numerically Predicted Damage and Failure Envelopes of Composites Featuring Non-Linear Material Behavior
Jakob Gager (Polymer Competence Center Leoben)
Martin Meindlhumer (FACC AG)
Martin Schwab (Polymer Competence Center Leoben)
Heinz E Pettermann (Vienna University of Technology)

Spring-in characteristics of thermoplastic composites with glass fiber fabric reinforcement
Jasmin Brühmann (Universität Siegen)
Bernd Engel (Universität Siegen)

EVALUATION OF THE APPLICABILITY OF THE FIRST PSEUDO-GRAIN FAILURE MODEL FOR SHORT GLASS FIBER REINFORCED POLYPROPYLENE MATERIALS
Martin Reiter (Johannes Kepler University Linz)
Michael Jerabek (Borealis Polyolefine GmbH)
Simon Gastl (Borealis Polyolefine GmbH)
Anna Maria Hartl (Johannes Kepler University Linz)
Zoltan Major (Johannes Kepler University Linz)
Reinhold W. Lang (Johannes Kepler University Linz)

Design And Manufacturing Of Optimum Variable Stiffness Laminates
Kazem Fayazbakhsh (McGill University)
Mahdi Arian nik (McGill University)
Damiano Pasini (McGill University)
Larry Lessard (McGill University)
Jihua Chen (National Research Council Canada)
Ali Yousefpour (National Research Council Canada)

Transmission electron microscopy characterization of effect of graphite in ZrB2-based composites
Liyuan Qin (Harbin Institute of Technology)
Songhe Meng (Harbin Institute of Technology)
Weihua Xie (Harbin Institute of Technology)
Hua Jin (Harbin Institute of Technology)
Chenghai Xu (Harbin Institute of Technology)
On the Proliferation of Standard Tests for Composite Bearing Strength 2185
Adam John Sawicki(The Boeing Company)

DAMAGE ACCUMULATION IN A FIBER REINFORCED COMPOSITE FOR SPACE APPLICATIONS 2195
Jihane Ajaja(McGill University)
François Barthelat(McGill University)

ADVANCED CRASH ABSORBERS STITCHED BY NATURAL FIBRES TO IMPROVE EFFECTIVE CRACK GROWTH RESISTANCE 2198
Hessam Ghasemnejad(Kingston University)

Numerical modelling of the weaving process for textile composite 2210
Jérôme Vilfayeau(ENSAIT)
David Crepin(Ecole Nationale Superieure des Arts et Industries Textiles)
Damien Soulat(Ecole Nationale Superieure des Arts et Industries Textiles)
Philippe Boisse(Institut National des Sciences Appliquees de Lyon)
François Boussu(Ecole Nationale Superieure des Arts et Industries Textiles)

EXPERIMENTAL STUDY ON THE IDENTIFICATION OF SATURATION OF A POROUS MEDIA THROUGH THERMAL ANALYSIS 2218
Maxime Villiere(Universite de Nantes)
Sébastien Gueroult(Universite du Havre)
Vincent Sobotka(Centre National de la recherche scientifique CNRS)
Nicolas Boyard(Centre National de la recherche scientifique CNRS)
Joël Bréard(Universite du Havre)
Didier Delaunay(Centre National de la recherche scientifique CNRS)

Mechanical and Microstructural Characterisation of Multifunctional Structural Power Composites 2228
Emile Smith Greenhalgh(Imperial College of Science, Technology and Medicine, University of London)
Malte Wienrich(BAM Federal Institute for Materials Research and Testing)
Jesper Ankersen(Imperial College of Science, Technology and Medicine, University of London)
Leif Erik Asp(Swerea SICOMP)
Oral Presentation (Continued)

Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)
Quentin P.v. Fontana (Cytec)
Gerhard Kalinka (BAM Federal Institute for Materials Research and Testing)
Matthieu Houille (Nanocyl SA)
Anthony Kucernak (Imperial College of Science, Technology and Medicine, University of London)
Sang Nguyen (Imperial College of Science, Technology and Medicine, University of London)
Sören Nilsson (Swerea SICOMP)
Joachim Hg Steinke (Imperial College of Science, Technology and Medicine, University of London)
Natasha Shirshova (Imperial College of Science, Technology and Medicine, University of London)

MULTIFUNCTIONAL STRUCTURAL POWER COMPOSITES BASED ON CARBON AEROGEL MODIFIED HIGH PERFORMANCE CARBON FIBRE FABRICS
Hui Qian (Imperial College of Science, Technology and Medicine, University of London)
Anthony Kucernak (Imperial College of Science, Technology and Medicine, University of London)
Emile Smith Greenhalgh (Imperial College of Science, Technology and Medicine, University of London)
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)
Milo S p Shaffer (Imperial College of Science, Technology and Medicine, University of London)

PREDICTION OF COMPRESSION AFTER IMPACT STRENGTH BASED ON INSTABILITY OF DELAMINATION
Makoto Ichiki (Sophia University)
Hiroshi Suemasu (Sophia University)
Yuichiro Aoki (Japan Aerospace Exploration Agency)

COMPARISON BETWEEN TRC AND CFRP AS EXTERNAL REINFORCEMENT FOR PLAIN CONCRETE BEAMS
Svetlana Verbruggen (Vrije Universiteit Brussel)
Jan Wastiels (Vrije Universiteit Brussel)
Tine Tysmans (Vrije Universiteit Brussel)
Silke Puystiens (Vrije Universiteit Brussel)

THERMAL CONDUCTIVITY MEASUREMENT OF GFRP AT CRYOGENIC TEMPERATURE
Kazuki Hayakawa (Tokyo Institute of Technology)
Takayoshi Inoue (Tokyo Institute of Technology)
Yuji Suzuki (Tokyo Institute of Technology)
COMPREHENSIVE STUDY ON THE TIME-DEPENDENT INELASTIC IN-PLANE SHEAR DEFORMATION OF COMPOSITES AT ELEVATED TEMPERATURES
Andre Chripunow(Bundeswehr Research Institute for Materials, Fuels and Lubricants (WIWeB))
Hannes Körber(Technische Universität München)

Experimental investigation of the effect of UV radiation and salt water on the dynamic properties and failure of carbon fiber-vinylester composites
Maen Alkhader(State University of New York at Stony Brook)
Chad S. Korach(State University of New York at Stony Brook)
Fu- pen Chiang(State University of New York at Stony Brook)

Effect of Au-ion irradiation on silicon carbide composites
Nihed Chaâbane(Commissariat a l’énergie atomique et aux energies alternatives CEA)
Marion Leflem(Commissariat a l’énergie atomique et aux energies alternatives CEA)
Thierry Vandenberghes(Commissariat a l’énergie atomique et aux energies alternatives CEA)
Stéphane Urvoy(Commissariat a l’énergie atomique et aux energies alternatives CEA)
Paul Dumas
Yves Serruys(Commissariat a l’énergie atomique et aux energies alternatives CEA)

Notched response of non-crimp fabric thin-ply laminates
Albertino Arteiro(Universidade do Porto)
Giuseppe Catalanotti(Universidade do Porto)
José Xavier(Universidade de Tras-os-Montes e Alto Douro)
Pedro P. Camanho(Universidade do Porto)

FINITE ELEMENT ANALYSIS OF DELAMINATION GROWTH WITH FRACTURE RESISTANCE DEPENDENT ON MIXED-MODE RATIO AND FIBER ORIENTATION
Atsushi Kondo(Tokyo Metropolitan University)
Yasuhiko Mikami(Tokyo Metropolitan University)

APPLICATION OF FOAM CORE TO CFRP SANDWICH MIRRORS FOR SPACE TELESCOPES
Shun Honda(Tokyo University of Science)
Masashi Ishikawa(Tokyo University of Science)
Yasuo Kogo(Tokyo University of Science)
Oral Presentation(Continued)

Tomohiro Kamiya(Japan Aerospace Exploration Agency)
Shin Utsunomiya(Japan Aerospace Exploration Agency)

THERMO-MECHANICAL INVESTIGATION OF ELECTROFORMED NICKEL-CARBON FIBERS COMPOSITES
Sabah S Abdulnoor(University of Technology)

SIMULATIONS OF THERMOMECHANICAL PERFORMANCE OF SMP-BASED MICROVASCULAR SYSTEMS
H. jerry Qi(University of Colorado at Boulder)
Kai Yu(University of Colorado at Boulder)
Jeffery W. Baur(Air Force Research Laboratory)
David M Phillips(Air Force Research Laboratory)

DURABILITY OF STEEL-CFRP ADHESIVE JOINTS UNDER SUSTAINED LOADING AND WET THERMAL-CYCLE
Ankit Agarwal(University of New South Wales)
Tian Sing Ng(University of New South Wales)
Ehab Hamed(University of New South Wales)
Stephen J Foster(University of New South Wales)

CURE MONITORING OF THICK CFRP LAMINATE BY OPTICAL-FIBER-BASED DISTRIBUTED SENSOR
Yusaku Ito(Tokyo University)
Takato Obo(Tokyo University)
Shu Minakuchi(The University of Tokyo)
Nobuo Takeda(The University of Tokyo)

EVALUATION OF THE FRACTURE TOUGHNESS OF COMPOSITE/ADHESIVE INTERFACE APPLIED BY IN-MOLD SURFACE MODIFICATION UNDER MODE II LOADING
Yukimoto Yoshikazu(Tokyo University of Science)

Effect of nanoclay on fire performance of hybrid nanocomposite
Quynh Thuy Nguyen(University of Melbourne)
Priyan Mendis(University of Melbourne)
Oral Presentation (Continued)

Tuan Ngo (University of Melbourne)
Debes Bhattacharyya (University of Auckland)

Effect of Residual Solvent and CaCl2 on Mechanical Properties of Electrospun Meta Aramid Nanofiber/Epoxy Adhesives
Hyun ju Oh (Chonbuk National University)
Da hye Kim (Chonbuk National University)
Hakyong Kim (Chonbuk National University)
Hui yun Hwang (Andong National University)
Seong su Kim (Chonbuk National University)

Determining the mechanical interphase thickness of polymeric nanocomposites using multiscale approach
Joonmyung Choi (Seoul National University)
Hyunseong Shin (Seoul National University)
Suyoung Yu (Seoul National University)
Seunghwa Yang (Dong-A University)
Maenghyo Cho (Seoul National University)

Stochastic approach to micromechanical modeling of porous solids
Borys Drach (University of New Hampshire)
Andrew Drach (University of New Hampshire)
Igor Tsukrov (University of New Hampshire)

Response of Cylindrical Composite Structures to Underwater Impulsive Loading
Siddharth Avachat (Georgia Institute of Technology)
Min Zhou (Georgia Institute of Technology)

Curing Reaction of Benzoxazine Containing Cyano and Propargyl Groups
Qiao Long Yuan (East China University of Science and Technology)
Lei Du (East China University of Science and Technology)
Farong Huang (East China University of Science and Technology)

Characterization of Cured NCF Composites Used in the Forming of Wind Turbine Blades
Oral Presentation (Continued)

Cynthia Mitchell (University of Massachusetts at Lowell)
James A. Sherwood (University of Massachusetts at Lowell)
Konstantine A Fetfatsidis (University of Massachusetts at Lowell)
Lisa Dangora (University of Massachusetts at Lowell)
Jennifer L. Gorczyca (University of Massachusetts at Lowell)

A novel composition for removable inner tooling of hollow composite structures 2408
David Schultheiss (Technische Universitat Munchen)
Cornelia Becker (Technische Universitat Munchen)
Swen Zaremba (Technische Universitat Munchen)
Christoph Ebel (Technische Universitat Munchen)
Klaus Drechsler (Technische Universitat Munchen)

STUDY OF INTERPHASE IN EXFOLIATED GRAPHITE NANOPLATELETS/POLYAMIDIE12 2417
NANOCOMPOSITES
Mehdi Karevan (Georgia Institute of Technology)
Kyriaki Kalaitzidou (Georgia Institute of Technology)

SELECTIVE LASER SINTERING FOR MANUFACTURING OF EXFOLIATED GRAPHITE 2427
NANOPLATELETS/POLYAMIDIE12 MULTIFUNCTIONAL NANOCOMPOSITES
Mehdi Karevan (Georgia Institute of Technology)
Shaun Eshraghi (Georgia Institute of Technology)
Suman Das (Georgia Institute of Technology)
Kyriaki Kalaitzidou (Georgia Institute of Technology)

MANUFACTURING AND IMPACT BEHAVIOR OF SANDWICH COMPOSITES WITH EMBEDDED 2435
GRAPHENE PLATELETS
Alfred Loos (Michigan State University)
Mahmood Haq (Michigan State University)
Rehan Umer (Khalifa University of Science Technology and Research)
Lawrence T Drzal (Michigan State University)

Investigating the flexural properties of bamboo fibre - PP composites consolidated under inert 2441
atmosphere
Eduardo Trujillo (Katholieke Universiteit Leuven)
Oral Presentation (Continued)

Jan Vertommen (Katholieke Universiteit Leuven)
Lina Osorio (Katholieke Universiteit Leuven)
Aart Willem Van vuure (Katholieke Universiteit Leuven)
Jan Ivens (Katholieke Universiteit Leuven)
Ignaas Verpoest (Katholieke Universiteit Leuven)

TWO-PHASE PORO-VASCULAR LAMINATES WITH STRUCTURE-PLUS-SURFACE ROUGHNESS CONTROL
James P. Thomas (Naval Research Laboratory)
Marriner Merrill (Naval Research Laboratory)
Andrew T. Smith
David Kessler (Naval Research Laboratory)
Michael Baur (Naval Research Laboratory)
Christopher Kindle (Science Applications International, Inc.)
Alberto Pique (Naval Research Laboratory)
Siddiq Qidwai (Naval Research Laboratory)

Investigations of interfacial adhesion between PZT fibers and epoxy matrices
Guido Sebastian Sommer (Leibniz Institute of Polymer Research Dresden)
Edith Maeder (Leibniz Institute of Polymer Research Dresden)
Jan Sander (Leibniz Institute of Polymer Research Dresden)

The Effect of Gas Texturing Technology on the Tensile Behaviour of Unidirectional (UD)
Carbon Fibre (CF) Reinforced Polyamide-12 (PA-12) Composite
Hele Diao (Imperial College of Science, Technology and Medicine, University of London)
Paul Robinson (Imperial College of Science, Technology and Medicine, University of London)
Michael R Wisnom (University of Bristol)
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)

Elaboration and investigation about the mechanical properties of reinforced aligned multi-walled carbon nanotube carpets composites
Jonathan Bouillonnec (Commissariat a lenergie atomique et aux energies alternatives CEA)

INFLUENCE OF PLY WAVINESS ON RESIDUAL STRENGTH AND FATIGUE DEGRADATION OF COMPOSITE WIND TURBINE BLADES
Oral Presentation (Continued)

Milos Draskovic (Universitat Stuttgart)
Udayanga Indunil kumar Galappaththi (Glasgow Caledonian University)
Anthony Pickett (Universitat Stuttgart)
Marc Capellaro (Universitat Stuttgart)
Peter Middendorf (Universitat Stuttgart)

**Hierarchical Regenerated Cellulose Fibre Reinforced Polyhydroxybutarate**
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)
Siti rosminah Shamsuddin (Imperial College of Science, Technology and Medicine, University of London)
Koon-yang Lee (Imperial College of Science, Technology and Medicine, University of London)

Material characterization with representative volume simulations of woven polymer matrix composites
Shawn A English (Sandia National Labs)
Timothy Briggs (Sandia National Labs)

**Finite Element Modeling of the Crushing Behavior of Graphite/Epoxy Members**
Deepak Siromani (Drexel University)
Tein-min Tan (Drexel University)
Jonathan Awerbuch (Drexel University)

**Inherent cure of carbon fibre composites using their electrical resistance**
Simon Antony Hayes (University of Sheffield)
Peter Wilson (University of Sheffield)
Evdokia Kouzaridou

**A Partition-of-unity method for modeling coupled thermo-mechanical problems in FRP laminates subjected to impact**
Awais Ahmed (Delft University of Technology)
Lambertus Johannes Sluys (Delft University of Technology)

**Comparison of methods to characterize damage onset in short glass fiber filled polypropylene**
Anna Maria Hartl (Johannes Kepler University Linz)
Oral Presentation (Continued)

Winoj Naveen Balasooriya (Johannes Kepler University Linz)
Martin Reiter (Johannes Kepler University Linz)
Markus Schossig (Hochschule Anhalt (FH), Hochschule fur angewandte Wissenschaften)
Michael Jerabek (Borealis Polyolefine GmbH)
Reinhold W. Lang (Johannes Kepler University Linz)

EFFECT OF VACUUM PRESSURE DURING CURING OF CARBON FIBRE LAMINATES ON THEIR MACHINABILITY
Pierre Coulon (École de technologie supérieure - Université du Québec)
Martine Dube (École de technologie supérieure - Université du Québec)
Jean-françois Chatelain (École de technologie supérieure - Université du Québec)

QUANTIFICATION OF SOURCES OF VARIABILITY IN CRFP PLATES CURED IN AUTOCLAVE
Yves Angel Davila (Institut Clément Ader)
Laurent Crouzeix (Institut Clément Ader)
Bernard Douchin (Institut Clément Ader)
Francis Collombet (Institut Clément Ader)
Yves-henri Grunevald

PREPARATION AND PROPERTIES OF PLANT FIBER MODIFIED PHENOLIC FOAM COMPOSITE MATERIALS
Zhong-jia Yang (Beihang University)
Yizhuo Gu (Beihang University)
Xuelin Tan (Beihang University)
Min Li (Beihang University)
Zuoguang Zhang (Beijing University of Aeronautics and Astronautics)

Process induced warpage in Laminated Shells
Jos Sinke (Delft University of Technology)

ALIGNED SHORT FIBRE COMPOSITES WITH HIGH PERFORMANCE
Hana Yu (University of Bristol)
Kevin Potter (University of Bristol)
Michael R Wisnom (University of Bristol)
THROUGH-THICKNESS COMPRESSION BEHAVIOR OF A 2,5D CARBON/CARBON COMPOSITE
Marie Poitrimol (Institut Clément Ader)
Mohammed Cheikh (Université de Toulouse-le-Mirail (Toulouse II))
Gérard Bernhart (Institut Clément Ader)

MULTILAYER COMPOSITES WITH SELF-HEALING CAPABILITY BASED ON AN EMAA IONOMER
Antonio Mattia Grande (Polytechnic Institute of Milan)
Luca Castelnovo (Polytechnic Institute of Milan)
Luca Di landro (Polytechnic Institute of Milan)
Giuseppe Sala (Polytechnic Institute of Milan)
Cinzia Giacomuzzo (University of Padua)
Alessandro Francesconi (University of Padua)

CARBON FIBRE REINFORCED PVDF PIPE
Siti rosminah Shamsuddin (Imperial College of Science, Technology and Medicine, University of London)
John Hodgkinson (Imperial College of Science, Technology and Medicine, University of London)
Leif Erik Asp (Swerea SICOMP)
Runar Langstrom (Swerea SICOMP)
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)

MECHANICAL PROPERTY OF PAPER REINFORCED THERMOSETTING RESIN COMPOSITE
Takanori Kitamura (Daiwa Itagami Co. Ltd.)
Kanta Ito (Daiwa Itagami Co. Ltd.)
Suguru Teramura (Daiwa Itagami Co. Ltd.)
Ryo Marui (Marui Textile Machinery Co. Ltd.)
Zhiyuan Zhang (Kyoto Institute of Technology)
Yuqiu Yang (Donghua University)
Hiroyuki Hamada (Kyoto Institute of Technology)

SWCNT COMPOSITES, INTERFACIAL STRENGTH AND MECHANICAL PROPERTIES
R. mikael Larsen (Aalborg University)
Jing Ma (Aalborg University)
UNDERWATER ACCELERATED AGING OF ELASTOMERIC COMPOSITE MATERIALS 2624
Audrey Favre(Ecole Polytechnique de Montreal)
Edith Roland Fotsing(Ecole Polytechnique de Montreal)
Edu Ruiz(Ecole Polytechnique)
Martin Lévesque(Ecole Polytechnique de Montreal)
Clémantine Fellah(Ecole Polytechnique de Montreal)

European Composites Developments for Launchers Applications 2633
Rafael Bureau dacal(European Space Agency)

PIEZO-RESISTIVE BEHAVIOUR OF MULTIFUNCTIONAL CNT REINFORCED INTERPHASES IN GF/PP COMPOSITES DURING THERMAL-MECHANICAL LOADING 2644
Niclas Wiegand(Leibniz Institute of Polymer Research Dresden)
Edith Maeder(Leibniz Institute of Polymer Research Dresden)

Synthesis of CMC matrix by nitridation of TiSi2 2653
Jerome Roger(Universite Bordeaux I)
Laurence Maille(Universite Bordeaux I)
Marie-anne Dourges(Universite Bordeaux I)

Coating polymer matrix composite tooling using pulsed gas-dynamic spraying 2661
Simon Gosselin(University of Ottawa)
Francois Robitaille(University of Ottawa)
Mohamed Yandouzi(University of Ottawa)
Bertrand Jodoin(University of Ottawa)

STRAIN RATE EFFECT ON SINGLE PPTA FIBER TENSILE BEHAVIOURS 2672
Jae hyun Kim(National Institute of Standards and Technology(NIST))
Nathanael Alan Heckert(National Institute of Standards and Technology(NIST))
Stefan D. Leigh(National Institute of Standards and Technology(NIST))
Walter Mcdonough(National Institute of Standards and Technology(NIST))
Kirk Rice(National Institute of Standards and Technology(NIST))
Gale A Holmes(National Institute of Standards and Technology(NIST))

IMPACT PROPERTIES OF WATER EXPOSED GFRP LAMINATES WITH OUTERMOST STEEL LAYERS 2680
### Oral Presentation (Continued)

Ezequiel Poodts (University of Bologna)
Daniele Ghelli (University of Bologna)
Tommaso Maria Brugo (University of Bologna)
Riccardo Panciroli (Polytechnic Institute of New York University)
Giangiacomo Minak (University of Bologna)

**ADDRESSING ENGINEERING ISSUES FOR A COMPOSITE STRUCTURAL POWER DEMONSTRATOR**

Mayur Kishorbhai Mistry (Imperial College of Science, Technology and Medicine, University of London)
Anthony Kucernak (Imperial College of Science, Technology and Medicine, University of London)
Sang Nguyen (Imperial College of Science, Technology and Medicine, University of London)
Jesper Ankersen (Imperial College of Science, Technology and Medicine, University of London)
Emile Smith Greenhalgh (Imperial College of Science, Technology and Medicine, University of London)

**STRENGTH ANALYSIS OF 3D AXIAL BRAIDED COMPOSITES**

Guodong Fang (Harbin Institute of Technology)

**Preliminary Evaluation of the Performance of Novel Fibre Reinforced Peel Stopper Concept in Sandwich Structures**

Georgios Martakos (Aalborg University)
Jens H. Andreasen (Aalborg University)
Ole T. Thomsen (Aalborg University)

**A COMPLETE MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION OF BAMBOO TECHNICAL AND ELEMENTARY FIBERS**

Lina Osorio (Katholieke Universiteit Leuven)
Eduardo Trujillo (Katholieke Universiteit Leuven)
Frederic Lens (University of Leiden)
Jan Ivens (Katholieke Universiteit Leuven)
Aart Willem Van vuure (Katholieke Universiteit Leuven)
Ignaas Verpoest (Katholieke Universiteit Leuven)

**Manufacturing of hybrid structures by prepreg press technology**

Christian Lauter (Universitat Paderborn)
Tim Krooss (Universitat Paderborn)
Oral Presentation (Continued)

Thomas Troester (Universitat Paderborn)

FRACTURE MECHANISM OF MECHANICALLY FASTENED CFRTP
Kotaro Shinohara (The University of Tokyo)
Jun Takahashi (The University of Tokyo)
Kiyoshi Uzawa (Kanazawa Institute of Technology)
Hideaki Murayama (The University of Tokyo)
Isamu Ohsawa (The University of Tokyo)

IN SITU MONITORING OF NANOPARTICLE FILTRATION IN CARBON NANOMATERIAL/GLASS FIBER/ POLYESTER MULTISCALE COMPOSITES DURING VARTM
Joel renaud Ngouanom Gnidakoung (Ulsan National Institute of Science and Technology)
Young Bin Park (Ulsan National Institute of Science and Technology)
Myungssoo Kim (Ulsan National Institute of Science and Technology)
Hyung Wook Park (Ulsan National Institute of Science and Technology)
Ho soon jeong
Young bok Jung
Kyungsik han
Sung Kyu ahn (Ulsan National Institute of Science and Technology)
Joung-man Park (Gyeongsang National University)

ORDERING NANOSTRUCTURE AND PROPERTIES OF AL2O3/ZRO2 EUTECTIC CERAMIC COMPOSITE PREPARED BY COMBUSTION SYNTHESIS UNDER LOW PRESSURE
Yongting Zheng (Harbin Institute of Technology)

ENVIRONMENTAL DURABILITY OF KENAF FIBRE REINFORCED UNSATURATED POLYESTER COMPOSITE
Mengyuan Liao (Kyoto Institute of Technology)
Yuqiu Yang (Donghua University)
Zhilan Xu (Donghua University, Shanghai)
Umaru Semo Ishiaku (Ahmadu Bello University)
Zainal arfin Mohd Ishak
Guijun Xian (Harbin Institute of Technology)
Toshihiko HOJO (Kyoto Institute of Technology)
Hiroyuki Hamada (Kyoto Institute of Technology)
SURFACE ANALYSES OF BASALT FIBRES: TAILORING THE INTERPHASE OF “GREEN” FIBRE REINFORCED COMPOSITES
Theresa Foerster(Leibniz Institute of Polymer Research Dresden)
Edith Maeder(Leibniz Institute of Polymer Research Dresden)
David Jesson(University of Surrey)
John F. Watts(University of Surrey)

MECHANICAL PERFORMANCE OF GLASS WOVEN FABRIC COMPOSITE: EFFECT OF HYBRID INTERPHASE WITH DIFFERENT SURFACE TREATMENT AGENTS
Kohsuke Togashi(Kyoto Institute of Technology)
Mengyuan Liao(Kyoto Institute of Technology)
Yuqiu Yang(Donghua University)
Hiroyuki Hamada(Kyoto Institute of Technology)

Interfacial Stress Transfer in Graphene Oxide Nanocomposites
Zheling Li(University of Manchester)
Robert Young(University of Manchester)
Ian A. Kinloch(University of Manchester)

INVESTIGATION ON THE FAILURE MECHANISMS OF COMPOSITE FASTENERS WITH COUNTERSUNK HEAD IN QUASISTATIC AND FATIGUE LOADING
Martin Schuett(Technische Universität Hamburg-Harburg)
Hans Wittich(Technische Universität Hamburg-Harburg)
Clémence Vernier(Bishop GmbH)
Frank Nussbaeumer(Bishop GmbH)
Karl Schulte(Technische Universität Hamburg-Harburg)

Atomistic simulation of deformation and failure mechanisms in Cu/SiC nanocomposites
Zhenyu Yang(Beijing University of Aeronautics and Astronautics)

The anchoring of a retrofit reinforcement concept in the trailing edge of wind turbine blades
Pietro Bortolotti(technical University of Denmark)
Konstantinos N. Anyfantis(technical University of Denmark)
Christian Berggreen(technical University of Denmark)
Oral Presentation (Continued)

Mikkel Lagerbon
Raphael Sajous

THE EFFECT OF FIBER MICROSTRUCTURE AND FIBER-MATRIX INTERFACIAL ADHESION ON MECHANICAL PROPERTIES OF COIR FIBRE COMPOSITES
Le Quan Ngoc Tran(Katholieke Universiteit Leuven)
Carlos Anibal Fuentes(Katholieke Universiteit Leuven)
Christine Dupont-gillain(Universite Catholique de Louvain)
Aart Willem Van vuure(Katholieke Universiteit Leuven)
Ignaas Verpoest(Katholieke Universiteit Leuven)

MECHANICAL BEHAVIOUR OF 3D WOVEN COMPOSITES UNDER TENSION, COMPRESSION AND BENDING
Shuo Dai(Loughborough University)
Paul Cunningham(Loughborough University)
Simon Marshall
Christopher Silva

Suppression of Delamination Crack for the Foam Core Sandwich Panel Joint
Keishiro Yoshida(Kanazawa Institute of Technology)
Hisayuki Kimura(Kanazawa Institute of Technology)
Yasuo Hirose(Kanazawa Institute of Technology)
Akira Kuraishi(Kawasaki Heavy Industries Ltd.)

The Recovery, Reprocessing and Reuse of Waste Glass Fibre Fabrics: “Closed-Loop Recycling”
Claire Fiona Wait(University of Birmingham)
Nicholas Shotton-gale(University of Birmingham)
Mohammed Shafiq Irfan(University of Birmingham)
Surya Pandita(University of Birmingham)
Liwei Wang(University of Birmingham)
Mark Paget(University of Birmingham)
Roger Price
John James
Gerard Fernando(University of Birmingham)
Oral Presentation (Continued)

CARBOHYDRATE DERIVED CO-POLY(LACTIDE) AS COMPATIBILISER FOR BACTERIAL CELLULOSE REINFORCED POLYLACTIDE NANOCOMPOSITES
Koon-yang Lee (Imperial College of Science, Technology and Medicine, University of London)
Thanit Montrikittiphant (Imperial College of Science, Technology and Medicine, University of London)
Min Tang (Imperial College of Science, Technology and Medicine, University of London)
Charlotte Williams (Imperial College of Science, Technology and Medicine, University of London)
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)

Experimental study of impact damage resistance and tolerance of composite sandwich panels
Peter Nash (Loughborough University)
Gang Zhou (Loughborough University)
Sahdev Gahlay (Loughborough University)
Mark Burt (Loughborough University)

DAMAGE SENSING IN FIBRE-REINFORCED COMPOSITES USING CARBON NANOTUBE NETWORKS BY SPRAY COATING
Han Zhang (Queen Mary and Westfield College, University of London)

A NOVEL APPROACH TO MODELLING OF FIBER-REINFORCED COMPOSITES WITH CARBON NANOTUBES
Valentin S. Romanov (Katholieke Universiteit Leuven)
Stepan V. Lomov (Katholieke Universiteit Leuven)
Larissa Gorbatikh (Katholieke Universiteit Leuven)
Ignaas Verpoest (Katholieke Universiteit Leuven)

MULTI-SCALE MODELING OF INTERFACIAL BEHAVIOR OF CNT/POLYMER COMPOSITE BY MD AND CFE METHOD
Qingsheng Yang (Beijing University of Technology)
Xia Liu (Beijing University of Technology)

An analytical model for the mechanical response of discontinuous composites
Soraia Pimenta (Imperial College of Science, Technology and Medicine, University of London)
Paul Robinson (Imperial College of Science, Technology and Medicine, University of London)
COMPARISON OF THE THROUGH THICKNESS STRAIN RATE SENSITIVITY OF E-GLASS/LPET AND E-GLASS/EPOXY UD LAMINATES

Rasmus Eriksen(Technical University of Denmark)
Janice Marie Dulieu-barton(University of Southampton)
Duncan Andrew Crump(University of Southampton)
Christian Berggreen(Technical University of Denmark)

Predicting the through-thickness enhancement of z-pinned composite laminates

Galal F.a. Mohamed(University of Bristol)
Fabrice Helenon(National Composites Centre)
Stephen Richard Hallett(University of Bristol)
Mehdi Yasaee(University of Bristol)
Giuliano Allegri(University of Bristol)

Proposal of a cohesive zone model suitable for the study of bonded joints

Azalia Moradi(ONERA)
Cedric Huchette(ONERA)
Thomas Vandellos(ONERA)
Dominique Leguillon(Centre National de la recherche scientifique CNRS)

CHARACTERISATION OF INELASTIC PROCESSES IN CF TEXTILE REINFORCEMENTS

Magdalena Szpieg(Swerea SICOMP)
Maciej Wysocki(Swerea SICOMP)

MIXED MODE COHESIVE LAW FOR FIBRE/MATRIX INTERFACE- A COUPLED EXPERIMENTAL AND NUMERICAL STUDY

Karolina Martyniuk(Technical University of Denmark)
Bent F Sørensen(Technical University of Denmark)
Qingda Yang(University of Miami)
Wei Liu(University of Miami)

Evaluation of Damage Development of Non-Crimp Fabric Composites with a Circular Hole Based on Multi-Scale Analysis

Tetsusei Kurashiki(Osaka University)
Yoshitaka Matsushima(Osaka University)
Oral Presentation (Continued)

Yuki Nakayasu (Osaka University)
Masaru Zako (Osaka University)

ADHESIVE BONDING CHARACTERISATION OF COMPOSITE JOINTS
King Jye Wong (Universite de Bourgogne)
Xiaoqing Gong (Universite de Bourgogne)
Shahram Aivazzadeh (Universite de Bourgogne)
Mohd N Tamin (Universiti Teknologi Malaysia)

Influence of cutting parameters and wear in drilling of 3D woven carbon/epoxy composites
Nicolas Cadorin (Institut Clément Ader)
Redouane Zitoune (Institut Clément Ader)
Francis Collombet (Institut Clément Ader)
Bruno Castanié (Institut Clément Ader)
Mathias Seve (Snecma)

Effect of superheated steam treatment on tensile strength of carbon fiber and fiber-resin interfacial shear strength
Masashi Wada (Japan Fine Ceramics Center)
Kazuhiro Kawai (Japan Fine Ceramics Center)
Yuta Shimizu (Daido University)
Kazumi Hayashi (Japan Fine Ceramics Center)
Tomoyuki Suzuki (Aichi Science and Technology Foundation)
Hirohito Hira (Daido University)
Satoshi Kitaoka (Japan Fine Ceramics Center)

Ballistic Impact of Thermoplastic Composites reinforced with carbon fibers
Hideaki Kasano (Takushoku University)
Mohd azwan shahady Adzmi (Takushoku University)

ESTIMATION OF RESIN FLOW FOR FRP BASE ON MPS METHOD
Shota Nodomi (Osaka University)
Tetsusei Kurashiki (Osaka University)
Ziming Guo (Osaka University)
Gaku Yoshikawa (Osaka University)
Oral Presentation (Continued)

Fumikazu Miyasaka (Osaka University)

TPI Effect on Resin Impregnation in VARTM and Its Mechanical Properties for Natural Fiber Composites
Junji Noda (Yamaguchi University)

STUDY ON INTERFACE COMPATIBILITY OF CARBON FIBER/EPOXY RESIN COMPOSITE BY SINGLE FIBER FRAGMENTATION TEST
Guo Congcong (Beihang University)
Zhan Maosheng (Beihang University)
Zhi Yang (Xian Aircraft Industry Corporation)

SHAPE MEMORY ALLOY LAMINATE FOR DESIGN OF SELF-FOLDING RECONFIGURABLE STRUCTURES
Edwin Alexander Peraza-hernandez (Texas A&M University)
Darren John Hartl (Texas A&M University)
Dimitris C Lagoudas (Texas A&M University)

MOLDING AND MECHANICAL PROPERTY OF FIBER BRAIDS RODS
Ma Yan (Donghua University, Shanghai)
Yuqiu Yang (Donghua University)
Hiroyuki Hamada (Kyoto Institute of Technology)
Weiguang Song (Kyoto Institute of Technology)
S Matsubara

COMPRESSIVE BEHAVIOUR OF CONCRETE CYLINDER CONFINED BY NATURAL FIBER REINFORCED POLYMER SHEET
Guijun Xian (Harbin Institute of Technology)

HYGROTHERMAL AGEING AND CREEP BEHAVIOR OF GLASS FIBER REINFORCED POLYMER COMPOSITES
Guijun Xian (Harbin Institute of Technology)
Yang Yuqiu (Donghua University, Shanghai)
Hiroyuki Hamada (Kyoto Institute of Technology)
Eisuke Fukui (Fukui Fibertech Co. Ltd.)
CONDUCTIVITY ENHANCEMENT FOR CARBON NANOTUNES WITH SILVER DECORATION  
Warintorn Thitsartarn(Institute of Materials Research and Engineering)  
3044

STRESS ANALYSIS OF A FILAMENT WOUND COMPOSITE FLYWHEEL DISK  
Md. Sayem Uddin(University of New South Wales)  
Evgeny V Morozov(University of New South Wales)  
Krishnakumar Shankar(Australian Defence Force Academy)  
3053

NANOPAPER ENABLED SHAPE-MEMORY POLYMER COMPOSITE FOR ELECTRICAL ACTUATION  
Haibao Lu(Harbin Institute of Technology)  
3064

RELATIONSHIP BETWEEN SLIPPING FRICTION OF PREPREG STACKS AND FORMING QUALITY OF HOT DIAPHRAGM FORMED C-SHAPED THERMOSETTING COMPOSITE LAMINATES  
Jing Sun(Beihang University)Yizhuo Gu(Beihang University)  
Min Li(Beihang University)  
Yanxia Li(Beijing University of Aeronautics and Astronautics)  
Zuoguang Zhang(Beihang University)  
3066

FLAME RETARDANT KENAF/PLA BIOCOMPOSITES: EFFECT OF AMMONIUM POLYPHOSPHATE  
Donghwan Cho(Kumoh National University of Technology)  
3076

A STUDY OF THE ELECTROMAGNETIC PROPERTIES OF IRON-MULTIWALLED CARBON NANOTUBES COMPOSITES  
Gang Liu(Beijing Institute of Aeronautical Materials BIAM)  
Jianwen Bao(Beijing Institute of Aeronautical Materials BIAM)  
Ming Jian Sun(Beihang University)  
Yan Zhao(Beihang University)  
3084

EFFECTS OF CURE PRESSURE ON VOID CONTENT AND ULTRASONIC ATTENUATION COEFFICIENT OF CARBON FIBRE REINFORCED COMPOSITE  
Yalin Yu(Beihang University)  
3092
Oral Presentation (Continued)

OPTIMUM DESIGN OF LAMINATED PLATE WITH DISCRETE PLY ANGLES BASED ON GSFP METHOD
Shutian Liu (Dalian University of Technology)

Development of carbon fibre reinforced epoxy composites with controllable stiffness
Henry Maples (Imperial College of Science, Technology and Medicine, University of London)
Charnwit Tridech (Imperial College of Science, Technology and Medicine, University of London)
Alexander Bismarck (Imperial College of Science, Technology and Medicine, University of London)
Paul Robinson (Imperial College of Science, Technology and Medicine, University of London)

BENDING AND MECHANICAL BEHAVIORS OF CNF/PPY CONDUCTIVE SINGLE-LAYER COMPOSITE MATERIAL
Cheol Kim (Kyungpook National University)

AUTONOMOUS RESTORATION OF ELECTRICAL INTERFACES
Nancy R Sottos (University of Illinois at Urbana-Champaign)

Deterministic Design and Manufacturing of Carbon Nanotube Staple Yarns
Sameh H. Tawfick (Massachusetts Institute of Technology)
Abhinav Rao (University of Michigan - Ann Arbor)
A. john Hart (University of Michigan - Ann Arbor)

Roll-to-roll manufacturing of carbon nanotube forests on metal foils
Erik Shaun Polsen (University of Michigan - Ann Arbor)
A. john Hart (University of Michigan - Ann Arbor)

Replica Molding of Liquid Crystal Polymer Microstructures for Active Surfaces
Davor Copic (University of Michigan - Ann Arbor)
Assaf Ya'akobovitz (University of Michigan - Ann Arbor)
A. john Hart (University of Michigan - Ann Arbor)

COMPOSITE PRESSURE VESSELS FOR COMMERCIAL APPLICATIONS
Luis Andre pinto Oliveira (Pole for Innovation in Polymer Engineering)
Joao Pedro Nunes (Universidade do Minho)
Oral Presentation(Continued)

Joao Francisco Silva(Instituto Politecnico do Porto)
Bruno Henrique Rodrigues Barros
Luis Manuel Amorim
Jose Miguel Vasconcelos(VIDROPOL, S.A.)

COMPRESSIVE BEHAVIOUR OF PVC FOAM IN ELEVATED TEMPERATURE USING DIGITAL IMAGE CORRELATION AND A MODIFIED ARCAN FIXTURE
Ole Thybo Thomsen(University of Southampton)
Janice Marie Dulieu-barton(University of Southampton)
Siavah T Taher(Aalborg University)

Flexural Fatigue Behaviour of New Engineered Biocomposites from Poly (3-hydroxybutyrate-co-hydroxyvalerate) (PHBV)/Poly (butylene adipate-co-terephthalate) (PBAT) Blends and Swithgrass
Anh dung Ngô(Ecole de Technologie Superieure)
Manjusri Misra(University of Guelph)
Amar K Mohanty(University of Guelph)
Martin Cardonne(École de technologie supérieure - Université du Québec)
Mohamed Khay(École de technologie supérieure - Université du Québec)
Vidhya Nagarajan(University of Guelph)

MODELLING OF FLEXURAL BEHAVIOUR OF FUNCTIONALLY GRADED COATINGS
Maria Kashtalyan(University of Aberdeen)
Maryam Heidari(University of Aberdeen)
Igor Guz(University of Aberdeen)

RESIDUAL STRENGTH OF FULL SCALE GRP LAMINATES WITH RANDOMLY DISTRIBUTED FRAGMENT DAMAGES
Sohrab Kazemahvazi(Royal Institute of Technology)
Martin Nilsson
Dan Zenkert(Royal Institute of Technology)

OPTIMIZED EXPERIMENTAL CHARACTERISATION OF PVC FOAM USING DIC TEST AND THE VIRTUAL FIELDS METHOD
Peng Wang(Aalborg University)
Oral Presentation (Continued)

Fabrice Pierron (University of Southampton)
Ole Thybo Thomsen (University of Southampton)
Marco Rossi
Lava Pascal (Katholieke Universiteit Leuven)

**FABRICATION AND MECHANICAL PROPERTIES OF UNIDIRECTIONAL COMPOSITE OF SILK FIBER/PLA BY COMPRESSION MOLDING** 3195
Anin Memon (Kyoto Institute of Technology)
Asami Nakai (Gifu University)

**EFFECTS OF PRESS MOLDING CONDITIONS ON IMPREGNATION AND MECHANICAL PROPERTIES OF CARBON FIBER FABRIC/PA6 FILM COMPOSITE** 3204
Ousuke Ishida (Kanazawa Institute of Technology)
Wataru Okumura (Industrial Research Institute of Ishikawa)
Hiroshi Saito (Kanazawa Institute of Technology)
Mitsugu Kimizu (Industrial Research Institute of Ishikawa)
Kiyoshi Uzawa (Kanazawa Institute of Technology)
Isao Kimpara (Kanazawa Institute of Technology)

**FLOW BEHAVIOR OF ALUMINIUM-BORON CARBIDE COMPOSITE BY DIFFERENTIAL STRAIN RATE COMPRESSION TEST** 3212
Srinu Gangolu (Indian Institute of Technology, Bombay)
A Gourav Rao (Indian Institute of Technology, Bombay)
N Prabhu (Indian Institute of Technology, Bombay)
V P Deshmukh (DRDO)
B P Kashyap (Indian Institute of Technology, Bombay)

*A new integrated anisomorphic CFL diagram approach to off-axis fatigue life prediction of CFRP laminates at any temperatures in any fiber-orientations* 3221
Masamichi Kawai (Tsukuba University)

**CARBON TEMPLATE FROM HEMP HURD POWDER** 3231
Zili Yan (University of Southern Queensland)
Tian Ma
Jianchun Zhang
Oral Presentation (Continued)

Hua Zhang (People's Liberation Army)
Hao Wang (University of Southern Queensland)

PRODUCTION OF BULK COST-EFFECTIVE MAGNESIUM MATRIX COMPOSITES
Xiaojun Wang (Harbin Institute of Technology)
Z Li (Harbin Institute of Technology)
Kun Wu (Harbin Institute of Technology)
Chengdong Li (Harbin Institute of Technology)
Mingjie Shen (Harbin Institute of Technology)
Weiqing Liu (Harbin Institute of Technology)
Chao Ding (Harbin Institute of Technology)

MIXED-MODE FRACTURE ANALYSIS OF DELAMINATION USING NON-LINEAR EXTENDED FINITE ELEMENT METHOD
Damoon Motamedi (University of British Columbia)
Abbas Milani (University of British Columbia)

A CASE STUDY ON DIMENSIONAL CHANGE OF GLASS FIBRE REINFORCED POLYMERS AFTER DEMOULDING: A COMBINED EFFECT OF CURE PROGRESSION AND THERMO-VISCOELASTIC BEHAVIOUR
Maziar Shah mohammadi (University of British Columbia)
Lucie Solnickova (University of British Columbia)
Bryn James Crawford (University of British Columbia)
Mojtaba Komeili (University of British Columbia)
Abbas Milani (University of British Columbia)

EFFECT OF THE TAPE/SUBSTRATE ORIENTATION ON THE TAPE DEFORMATION DURING AUTOMATED TAPE PLACEMENT
Xavier Gagné brulotte (McGill University)
Arthur Levy (McGill University)
Pascal Hubert (McGill University)

Material Removal Mechanism of Carbon/Epoxy Composites in Single Diamond Grain Machining
Helmi Attia (National Research Council Canada)
Oral Presentation (Continued)

Ireen Sultana (McGill University)
Zhongde Shi (National Research Council of Canada NRC)
Vincent Thomson (McGill University)

On the Effect of MQL Parameters on Machining Quality of CFRP 3281
Helmi Attia (National Research Council Canada)

Development of Multi-Scale Biocomposites From Flax, Nanocellulose and Epoxy by Resin Infusion 3291
Steven Phillips (McGill University)
Larry Lessard (McGill University)
Pascal Hubert (McGill University)
Peiyu Kuo (University of Toronto)
Mohini Sain (University of Toronto)
Cristian Demaria (McGill University)

HYPERELASTIC AND HYPOELASTIC MODELS FOR THE MESOSCOPIC ANALYSES OF COMPOSITE REINFORCEMENT DEFORMATION DURING FORMING 3299
Philippe Boisse (Institut National des Sciences Appliquees de Lyon)
Emmanuelle Vidal-sallé (Institut National des Sciences Appliquees de Lyon)
Than Nguyen (Institut National des Sciences Appliquees de Lyon)
Adrien Charmetant (Institut National des Sciences Appliquees de Lyon)

Temperature dependence of the interfacial shear strength in glass reinforced polypropylene and epoxy composites 3308
James Thomason (University of Strathclyde)
Liu Yang (University of Strathclyde)

MICROSCOPIC PROPERTIES AND NUMERICAL SIMULATION OF ALIGNED CNT SHEET COMPOSITES 3317
Tsuda Terumasa (The University of Tokyo)

EROSIVE AND ABRASIVE WEAR RESISTANCE OF TRANSPARENT NANOCOMPOSITE COATINGS FILLED WITH SILICA NANOPARTICLES 3325
Zhong Zhang (National Center for Nanoscience and Technology)
Cure cycle monitoring of laminated carbon fiber-reinforced plastic by fiber Bragg gratings in microstructured optical fiber
Camille Sonnenfeld(Vrije Universiteit Brussel)
Geert Luyckx(Ghent University)
Francis Collombet(Institut Clément Ader)
Yves-henri Grunevald
Bernard Douchin(Institut Clément Ader)
Laurent Crouzeix(Institut Clément Ader)
Mauricio Torres(Institut Clément Ader)
Thomas Geernaert(Vrije Universiteit Brussel)
Sanne Sulejmani(Vrije Universiteit Brussel)
Karima Chah(Université de Mons)
Pawel Mergo(Maria Curie-Skłodowska University Lublin)
Hugo Thienpont(Vrije Universiteit Brussel)
Francis Berghmans(Vrije Universiteit Brussel)

EXPERIMENTAL VERIFICATION OF SPRINGBACK PHENOMENON ANALYSIS BY FBG SENSORS AND IMAGE PROCESSING METHODS IN C/PPS COMPOSITE
Zdenek Padovec(Czech Technical University of Prague)
Hynek Chlup(Czech Technical University of Prague)
Milan Dvorak(Czech Technical University of Prague)
Milan Ruzicka(Czech Technical University of Prague)

Experimental Characterisation Of The Progressive Failure Of Grid-Scored Sandwich Structures In Wind Turbine Blades
Steffen Laustsen(Aalborg University)

Preparation and Properties of MMT/Epoxy/Carbon Fiber Multi-scale Composite
Shijie Zhang(Xi'an Aerospace Composite Materials Research Institute)

EFFECT OF TRM ON THE FLEXURAL PERFORMANCE OF RC BEAMS
Sassan Rakhshani(University of British Columbia)
Ahmad Rteil(University of British Columbia)
Mojtaba Komeili(University of British Columbia)
Abbas Milani (University of British Columbia)

Influence of air release agent additive on vacuum bag curable prepreg
Baoyan Zhang (China Aviation Industry Corp)

PREDICTION OF FATIGUE DAMAGE EVOLUTION IN MULTIDIRECTIONAL LAMINATES
Marino Quaresimin (University of Padua)
Paolo Andrea Carraro (University of Padua)

Thermoplastic Composites from Reactive Resin Systems - Challenges and Opportunities
Mingfu Zhang (Johns Manville)

NONLINEAR BUCKLING OF SYNTACTIC FOAMS WITH IMPERFECT INTERFACE
Adel Shams (Polytechnic Institute of New York University)
Matteo Aureli (Polytechnic Institute of New York University)
Maurizio Porfiri (Polytechnic Institute of New York University)

Thermal Conductivity of Carbon Fiber Fabrics
Yue Yang (University of Ottawa)
Francois Robitaille (University of Ottawa)
Simon James Hind (National Research Council Canada)

Experimental Optimization of Orbital Drilling of Woven Carbon Fiber Reinforced Epoxy Laminates
Helmi Attia (National Research Council Canada)
Ahmad Sadek (McGill University)

Moisture absorption of gluten polymers and flax/gluten composites
Nhan Vo hong (Katholieke Universiteit Leuven)
Aart Willem Van vuure (Katholieke Universiteit Leuven)
Peter Van puyvelde (Katholieke Universiteit Leuven)
Ignaas Verpoest (Katholieke Universiteit Leuven)

PROCESSING CONDITIONS AND PROPERTIES OF CONTINUOUS FIBER REINFORCED GF/PP THERMOPLASTIC MATRIX COMPOSITES MANUFACTURED FROM DIFFERENT PRE-IMPREGNATED MATERIALS
Oral Presentation (Continued)

Joao Pedro Nunes (Universidade do Minho)
Joao Francisco Silva (Instituto Politecnico do Porto)
Marta Sofia Santos (Universidade do Minho)
Paulo Jorge Novo (Escola Superior de Tecnologia e Gestao)
António Torres Marques (Universidade do Porto)

**ELECTRICAL RESPONSE OF GRAPHENE REINFORCED COMPOSITES UNDER STATIC AND DYNAMIC LOADING**
Nicholas Heeder (University of Rhode Island)
Indrani Chakraborty (University of Rhode Island)
Fei Guo (Brown University)
Michael Godfrin (Brown University)
Robert Hurt (Brown University)
Anubhav Tripathi (Brown University)
Arijit Bose (University of Rhode Island)
Arun Shukla (University of Rhode Island)

**INTERACTION BETWEEN METALLIC MICRO-FASTENERS AND CARBON-FIBRE COMPOSITE LAMINATES**
Philip N Parkes (University of Bath)
Richard Butler (University of Bath)

**Modelling edge effects on compressive strength of fibre composites**
Michael Sutcliffe (University of Cambridge)

**An analytical model to improve the efficiency of numerical analyses of composite bolted lap joints subjected to high rates of loading**
Philip Anthony Sharos (University of Limerick)
Conor T. McCarthy (University of Limerick)

**Crushing of composite structures and parameter identification for model development**
Sindy Engel (Technische Universitat Bergakademie Freiberg)
Christian Boegle (BMW Group)
Dirk Lukaszewicz (BMW Group)
BIOINSPIRED NANOULAR EFFECTED GLASS FIBRE SURFACE AND COMPOSITE INTERPHASE
Shanglin Gao (Leibniz Institute of Polymer Research Dresden)
Yin hu Deng (Leibniz Institute of Polymer Research Dresden)
Jian wen Liu (Leibniz Institute of Polymer Research Dresden)
Edith Maeder (Leibniz Institute of Polymer Research Dresden)

MODELLING COMPRESSION DAMAGE IN CFRP: COMBINING FRICTION WITH DAMAGE
Renaud Gutkin (Swerea SICOMP)

IOSIPESCU TEST TO CHARACTERIZE MODE II DELAMINATION RESISTANCE OF FIBRE-REINFORCED POLYMERS
Ben Jar (University of Alberta)
Scott Mckinney (University of Alberta)

CARBON FIBER / EXPANDED POLYPROPYLENE COMPOSITE FOR ISOTROPIC CONDUCTIVITY
Jeong u Roh (Seoul National University)
Woo il Lee (Seoul National University)

RUBBER PAD FORMING OF GLARE CRUCIFORM USING NUMERICAL AND EXPERIMENTAL ANALYSIS
Ravishankar Subbaramaiah (University of New South Wales)
B.gangadhara Prusty (University of New South Wales)
Garth Morgan Kendall Pearce (University of New South Wales)
Shen hin Lim (University of New South Wales)
Donald Wainwright Kelly (University of New South Wales)
Rodney Thomson

MULTISCALE ANALYSIS FOR PREDICTION OF STRENGTH IN TEXTILES UNDER COMBINED THERMOMECHANICAL LOADING
Wesley Ross McLendon (Texas A&M University)
John D Whitcomb (Texas A&M University)

SOLID MECHANICS-BASED SIMULATION OF COMPOSITE FORMING WITH STRESS RELAXATION IN THE DRY FABRIC REINFORCEMENT AND RESIN CURING

Oral Presentation (Continued)

Mojtaba Komeili (University of British Columbia)
Abbas Milani (University of British Columbia)

NON-EXPLOSIVE METHODOLOGY FOR DYNAMIC BLAST LOADING OF WIDE AREA
COMPOSITE ARMOR PANELS
Daniel Whisler (University of California, San Diego)
Hyonny Kim (University of California, San Diego)
Ken-an Lou

Mechanical coupling between metal liner and composite structure in type III tanks during high
pressure fatigue loading.
Dominique M Perreux (Universite de Franche-Comte)

RESPONSE SURFACES OF MECHANICAL BEHAVIOR OF DRY WOVEN FABRICS UNDER
COMBINED LOADINGS
Mojtaba Komeili (University of British Columbia)
Abbas Milani (University of British Columbia)

Study and simulation of thermal conductivity of organic matrix composites
Bénédicte Reine (Institut Clément Ader)
Jeremy Di tomaso
Gilles Dusserre (Institut Clément Ader)
Philippe A Olivier (Institut Clément Ader)

INTERLAMINAR CRACK DETECTION IN GRAPHENE NANOPLATELET/ CFRP COMPOSITES
USING ELECTRIC RESISTANCE CHANGE
Babak Ahmadi moghadam (Dalhousie University)
Babak Soltannia (Dalhousie University)
Farid Taheri (Dalhousie University)

Modeling of elastic properties of the cell wall material in nanoclay-reinforced foams
Oksana Shishkina (Katholieke Universiteit Leuven)
Larissa Gorbatikh (Katholieke Universiteit Leuven)
Stepan V. Lomov (Katholieke Universiteit Leuven)
Ignas Verpoest (Katholieke Universiteit Leuven)
INTERLAMINAR CHARACTERISTICS OF CFRP WITH THERMOPLASTIC PARTICLES 3616
Takayuki Uno(Gifu University)
Akio Ohtani(Gifu University)
Asami Nakai(Gifu University)
Teiji Ito(Daicel-Evonik Ltd.)
Eiji Takenaka(Daicel-Evonik Ltd.)
Mitsuteru Mutsuda(Daicel-Evonik Ltd.)

A COMPUTATIONAL TOOL FOR THE ANALYSIS AND DESIGN OF STRUCTURAL ADHESIVE JOINTS 3628
Konstantinos N. Anyfantis(Technical University of Denmark)

Criteria for skin rupture and core shear cracking during impact on sandwich panels 3638
Robin Olsson(Swerea SICOMP)
Tim Berend Block(Faserinstitut Bremen e.V.)

SHADES OF GREEN: PRELIMINARY LCA OF BIOBASED POLYMER RESINS FOR COMPOSITE MATERIALS 3646
Jonathon Chard(University of Surrey)
Lauren Basson(University of Surrey)
Gavin Creech(Scott Bader Company Ltd)
David Jesson(University of Surrey)
Paul A Smith(University of Surrey)

Experimental Investigation on Energy Absorbing Pressurised Composite Tubes 3654
Tiansong Hou(University of New South Wales)
B. gangadhara Prusty(University of New South Wales)
Garth Morgan Kendall Pearce(University of New South Wales)
Donald Wainwright Kelly(University of New South Wales)
Rodney Thomson

FABRICATION AND PROPERTY STUDY OF POLYMER/FIBER/CLAY TERNARY COMPOSITES 3662
Xu Li(Institute of Materials research and Engineering)
Oral Presentation (Continued)

Stress and Strain Fields in Sandwich T-Joints Subjected to Simulated Slamming Loads 3667
Mark Battley (University of Auckland)
James Flett (University of Auckland)
Tom Allen (University of Auckland)

POLYPROPYLENE/KENAF COMPOSITES: THEIR MECHANICAL/FIRE RETARDANT PROPERTIES AND FIBER LENGTH RETENTION IN TWIN SCREW PROCESSING 3676
Debes Bhattacharyya (University of Auckland)

Effect of Layup and Ply Morphology on Void Formation in Out-of-Autoclave Prepregs 3685
Timotei Centea (McGill University)
Mathieu Preau (McGill University)
Pascal Hubert (McGill University)

Effect of Adhesively Bonded Composite Patch Stiffness on Fatigue Crack Growth in an Aluminum Fuselage Panel 3694
Reewanshu Chadha (Drexel University)
Tein-min Tan (Drexel University)
Jonathan Awerbush (Drexel University)

MECHANISM OF CRACK PROPAGATION/DEFLECTION AT FIBER MATRIX INTERFACE IN CERAMICS MATRIX CONTINUOUS FIBER REINFORCED COMPOSITES 3705
Michael Braginsky (University of Dayton)
Craig P Przybyla (AFRL/RXCC)

INITIATION AND PROPAGATION OF FIBER FAILURE IN COMPOSITE LAMINATES 3714
Endel Iarve (University of Dayton)
David H Mollenhauer (Air Force Research Laboratory)
Timothy D Breitzman (Air Force Research Laboratory)
Kevin Hoos (University of Dayton)
Michael Swindeman (University of Dayton)

EFFECTS OF PROCESSING PARAMETERS ON ELECTRO-FUSION JOINING BEHAVIOR OF CF/PPS COMPOSITES 3722
Daiki Tanabe (Osaka University)
Oral Presentation (Continued)

Shinji Tsutaya (Kinki University)
Kazuaki Nishiyabu (Kinki University)
Tetsusei Kurashiki (Osaka University)

IMPACT ABSORPTION OF COMPOSITES WITH SHEAR THICKENING FLUID FILLED FOAMS 3732
Veronique Michaud (École polytechnique fédérale de Lausanne)

BENDING STIFFNESS OF LAMINATES WITH INTRALAMINAR CRACKS IN SURFACE LAYERS AND INTERFACE DELAMINATIONS 3741
Janis Varna (Lulea University of Technology)
Andrejs Pupurs (Lulea University of Technology)
Liva Pupure (Lulea University of Technology)

NUMERICAL STUDY OF THE EFFECT OF NYLON 6,6 ELECTROSPUN NANOFOIBROUS MATS TO THE DELAMINATION STRENGTH OF CFR-EPOXY COMPOSITE LAMINATES 3751
Fabrizio Moroni (University of Parma)
Roberto Palazzetti (University of Bologna)
Andrea Zucchelli (University of Bologna)
Alessandro Pirondi (University of Parma)
Gregorio Giuliese (University of Parma)
Giangiacomo Minak (University of Bologna)
Seeram Ramakrishna (National University of Singapore)

Ductile steel fiber/epoxy composites with modified adhesion 3760
Michaël Guy Callens (Katholieke Universiteit Leuven)
Larissa Gorbatikh (Katholieke Universiteit Leuven)
Ellen Bertels (Katholieke Universiteit Leuven)
Bart Goderis (Katholieke Universiteit Leuven)
Mario Smet (Katholieke Universiteit Leuven)
Ignas Verpoest (Katholieke Universiteit Leuven)

REAGGLOMERATION OF CARBON NANOTUBES DURING PROCESSING OF EPOXY NANOCOMPOSITES 3768
Mostafa Yourdkhani (McGill University)
Pascal Hubert (McGill University)
The study of methyl methacrylate hardened hybrid poplar wood
Weidan Ding (University of Quebec Abitibi-Temiscamingue)
Ahmed Koubaa (University of Quebec Abitibi-Temiscamingue)
Abdelkader Chaala

Thermographic evaluation of CFRP specimens drilled with conventional and abrasive water jet techniques
Muhammad Saleem (Ryerson University)
Lotfi Toubal (University of Quebec at Trois Rivieres)
Redouane Zitoune (Institut Clément Ader)
Habiba Bouguerara (Ryerson University)

MICROMECHANICAL INVESTIGATION OF RESIDUAL STRESSES AND STRENGTH OF CROSS-Ply LAMINATES
Fatih Ertugrul Oz (Bogazici University)
Nuri Bulent Ersoy (Bogazici University)

Vacuum bag only manufacturing of honeycomb sandwich panels
James Kratz (McGill University)
Pascal Hubert (McGill University)

GENERALIZED COMPLIANCE, A NEW TECHNIQUE FOR PROGRESSIVE DAMAGE ANALYSIS IN COMPOSITE MATERIALS
Kenneth L Reifsnider (University of South Carolina - Columbia)
Md Rassel Raihan (University of South Carolina - Columbia)

INFLUENCE OF TRIMMING PROCESS ON THE SURFACE QUALITY AND THE MECHANICAL BEHAVIOR OF CFRP STRUCTURES: STATIC AND FATIGUE TESTS
Haddad Madjid (Institut Clément Ader)
Habiba Bouguerara (Ryerson University)
Redouane Zitoune (Institut Clément Ader)
Florent Eyma (Institut Clément Ader)
Bruno Castanié (Institut Clément Ader)
Oral Presentation (Continued)

THE INFLUENCE OF TEMPERATURE ON THE STABILITY OF POLYMER FOAM CORED SANDWICH STRUCTURES  
Janice Marie Dulieu-barton (University of Southampton)  
Ole Thybo Thomsen (University of Southampton)  
Shufeng Zhang (University of Southampton)

FABRICATION AND MECHANICAL PROPERTIES OF 3D JUTE FABRICS REINFORCED COMPOSITES  
Jieng-chiang Chen (Vanung University)  
Chang-mou Wu (National Taiwan University of Science and Technology)  
Zi-jie Lin (Vanung University)  
Yi-an Teng (Feng Chia University)

DESIGN CONSTRAINTS OF COMPOSITE LATTICE CYLINDERS FOR AEROSPACE APPLICATIONS  
Takahira Aoki (The University of Tokyo)  
Hajime Yamazaki (The University of Tokyo)  
Tomohiro Yokozeki (The University of Tokyo)  
Keita Terashima (Japan Aerospace Exploration Agency)  
Toru Kamita (Japan Aerospace Exploration Agency)

Study on Mechanical Properties of Modified Graphene/Epoxy Nanocomposites  
Muchun Liu (Beihang University)  
Meihong Ge (Beijing Oriental Hanson Curtain Wall Technology Co. Ltd.)  
Song Yang (Beijing UFT Conference & Exhibition Co. Ltd.)

OPTIMAL FIBER PLACEMENT INCLUDING EFFECTS OF EMBROIDERY  
Tatsuya Nishida (Nagoya University)  
Tadashige Ikeda (Nagoya University)  
Atsuhiro Senba (Nagoya University)

INTERLAMINAR REINFORCEMENT BY ALIGNED CARBON NANOTUBES IN CARBON FIBER REINFORCED POLYMER COMPOSITES  
Felix N Nguyen (Toray Composites (America))  
Kenichi Yoshioka (Toray Industries Inc.)
Oral Presentation (Continued)

Al Haro (Toray Composites America Inc.)
Noriyuki Hirano (Toray Industries Inc.)
Swezin Than tun (Toray Composites (America))
Raquel Ovalle robles (University of Texas at Dallas)

CARBON FIBER’S SURFACE CHEMISTRY AND SELF-ASSEMBLED INTERPHASE FORMATION IN FIBER REINFORCED POLYMER COMPOSITES
Felix N Nguyen (Toray Composites (America))
Kenichi Yoshioka (Toray Industries Inc.)
Al Haro (Toray Composites America Inc.)
Daigo Kobayashi (Toray Industries Inc.)
Yoshifumi Nakayama (Toray Industries Inc.)
Tomoko Ichikawa (Toray Industries Inc.)
Eric Aston (University of Idaho)

EXPERIMENTAL INVESTIGATION OF PHYSICAL AGING EFFECT ON THE MECHANICAL PROPERTIES OF A CARBON/POLYIMIDE BRAIDED COMPOSITE
Simon Dulong (Ecole Polytechnique de Montreal)
Martin Lévesque (Ecole Polytechnique de Montreal)
Chun Li (National Research Council Canada)
Aurelian Vadean (Ecole Polytechnique de Montreal)

DESIGN OF THE THERMAL TRANSPORT IN FIBER REINFORCED COMPOSITES
Vinit Deshpande (Karlsruhe Institute of Technology)
Romana Piat (Karlsruhe Institute of Technology)
Yuriy Sinchuk (Karlsruhe Institute of Technology)
Galyna Stasiuk (Karlsruhe Institute of Technology)
Puneet Mahajan (Indian Institute of Technology, Delhi)

ELECTRICALLY CONDUCTIVE ADHESIVES FOR CFRP COMPOSITES BASED ON NICKEL NANOSTRANDS AND CARBON NANOTUBES
Iosif Daniel Rosca (Concordia University)
Suong Hoa (Concordia University)

INFINITE LIFE OF CFRP EVALUATED NONDESTRUCTIVELY WITH X-RAY-REFRACTION TOPOGRAPHY
Oral Presentation (Continued)

Volker Trappe (BAM Federal Institute for Materials Research and Testing)
Hans Peter Ortwein (BAM-Federal Institute for Materials Research & Testing)
Stefan Hickmann (BAM-Federal Institute for Materials Research & Testing)

STUDY ON NEW SURFACE PRETREATMENTS OF PAINTING TO CFRP LAMINATES 3915
Tomoyuki Suzuki (Aichi Science and Technology Foundation)
Hirohito Hira (Daido University)

NCF/BMI COMPOSITE MATERIALS: EFFECT OF STITCHING THREADS 3923
Anqi Dong (Beihang University)
Xinqing Zhao (Beihang University)
Li Zhang (Beihang University)
Shan Zhu (Beihang University)

DAMAGE BEHAVIOUR IN QUASI-ISOTROPIC CFRP LAMINATES WITH SMALL FIBRE ORIENTATION MISMATCH 3933
Hayato Nakatani (Osaka City University)
Shinji Ogihara (Tokyo University of Science)

APPROACHES FOR AE MONITORING OF DELAMINATION ONSET AND GROWTH IN COMPOSITES 3941
Ahmed Maslouhi (University of Sherbrooke)
Silversides Ian (University of Sherbrooke)
Laplante Gabriel (University of Moncton)

COMPATIBILITY ASSESSMENT BETWEEN INTERLEAVING NANOFIBERS AND COMPOSITE LAMINATES 3951
Kunigal N Shivakumar (North Carolina A&T State University)
Sandi G Miller (NASA)
Raghu Panduranga (North Carolina Agricultural and Technical State University)
Matthew M Sharpe (North Carolina Agricultural and Technical State University)

ULTRASTRONG, STIFF AND MULTIFUNCTIONAL CARBON NANOTUBE COMPOSITES 3959
Yuntian T. Zhu (North Carolina State University)
SURFACEMODIFICATIONS ON BASALTFIBERS
Yanpei Li(Donghua University, Shanghai)
Jilong Wang(Donghua University, Shanghai)
Hiroyuki Hamada(Kyoto Institute of Technology)
Yiping Qiu(Donghua University, Shanghai)
Yang Yuqiu(Donghua University, Shanghai)

REPAIR OF CF/PA6 LAMINATE BELOW MELTING POINT WITH BARELY VISIBLE IMPACT DAMAGE
Manato Kanesaki(Kyoto University)
Chika Uchijo(Kanazawa Institute of Technology)
Mototsugu Tanaka(Kanazawa Institute of Technology)
Hiroshi Saito(Kanazawa Institute of Technology)
Masaaki Nishikawa(Kyoto University)
Masaki Hojo(Kyoto University)
Isao Kimpara(Kanazawa Institute of Technology)

DIRECT MEASUREMENT OF OUT-OF-PLANE AND IN-PLANE CURE SHRINKAGE STRAIN IN COMPOSITES BY EMBEDDED FIBER-OPTIC SENSORS
Shu Minakuchi(The University of Tokyo)

3D FULL-FIELD DISPLACEMENTS/STRAINS MEASUREMENTS IN COMPOSITES AT MICRO-SCALE
Farhad Mortazavi(Ecole Polytechnique de Montreal)
Elias Ghossein(Ecole Polytechnique de Montreal)
Martin Lévesque(Ecole Polytechnique de Montreal)
Isabelle Villemure(Ecole Polytechnique de Montreal)

Experimental Characterisation of Recycled (Glass/TPU Woven Fabric) Flake Reinforced Thermoplastic Composites
Mohammed iqbal Abdul rasheed(University of Twente)
Remko Akkerman(University of Twente)
Bert Rietman(University of Twente)
Hendrikus A. Visser(University of Twente)
Oral Presentation (Continued)

Improved thermal properties with hybridization of the fillers for thermoplastic materials 4011
Jozsef Gabor Kovacs (Budapest University of Technology and Economics)
Andras Suplicz (Budapest University of Technology and Economics)

MECHANICAL PROPERTIES OF GLASS SHORT FIBER/WOOD POWDER/POLYPROPYLENE HYBRID COMPOSITES 4019
Ying Yu (Kyoto Institute of Technology)
Yuqiu Yang (Donghua University)
Manabu Nomura
Hiroyuki Hamada (Kyoto Institute of Technology)

Multi Axis Machining Of High Performance CFRP For Aerospace Industry 4027
Seyedbehzad Ghafarizadeh (École de technologie supérieure - Université du Québec)
Jean-françois Chatelain (École de technologie supérieure - Université du Québec)
Gilbert Lebrun (University of Quebec at Trois-Rivieres)

Tensile behaviour of carbon fibre composites hybridised with self-reinforced polypropylene 4035
Yentl Swolfs (Katholieke Universiteit Leuven)
Liesbet Crauwels (Katholieke Universiteit Leuven)
Larissa Gorbatikh (Katholieke Universiteit Leuven)
Peter Hine (University of Leeds)
Ian Ward (University of Leeds)
Ignaas Verpoest (Katholieke Universiteit Leuven)

A novel strength model for unidirectional fibre-reinforced composites with realistic fibre packings 4043
Ignaas Verpoest (Katholieke Universiteit Leuven)
Yentl Swolfs (Katholieke Universiteit Leuven)
Larissa Gorbatikh (Katholieke Universiteit Leuven)

Structural glass fibres for optical damage, cure and moisture ingress sensing in advance reinforced polymer composites 4052
Peter Wilson (University of Sheffield)
Simon Antony Hayes (University of Sheffield)
Russell Hand (University of Sheffield)
Oral Presentation (Continued)

MULTI-SCALE MODELING OF THE VISCOELASTIC PROPERTIES OF NON-WOVEN, THERMOPLASTIC COMPOSITES
Sascha Fliegener (Fraunhofer Institute for Mechanics of Materials IWM)
Diego Elmer (Fachhochschule Offenburg, Hochschule für Technik und Wirtschaft)
Thomas Seifert (Fachhochschule Offenburg, Hochschule für Technik und Wirtschaft)
Michael Luke (Fraunhofer Institute for Mechanics of Materials IWM)

form-flexible handling technology for automated preforming
Christian Löchte (Technische Universität Carolo-Wilhelmina Braunschweig)
Holger Kunz (Technische Universität Carolo-Wilhelmina Braunschweig)
Raphael Schnurr (Technische Universität Carolo-Wilhelmina Braunschweig)
Franz Dietrich (Technische Universität Carolo-Wilhelmina Braunschweig)
Annika Raatz (Technische Universität Carolo-Wilhelmina Braunschweig)
Klaus Dilger (Technische Universität Carolo-Wilhelmina Braunschweig)
Klaus Dröder (Technische Universität Carolo-Wilhelmina Braunschweig)

HANDLING OF PREFORMS AND PREPPREGS FOR MASS PRODUCTION OF COMPOSITES
Christian Brecher (Fraunhofer Institute for Production Technology)
Michael Emonts (Fraunhofer Institute for Production Technology)
Boris Ozolin (Fraunhofer Institute for Production Technology)
Richard Schares (Fraunhofer Institute for Production Technology)

Hybrid Testing of Composite Structures With Single-Axis Control
Jacob Paamand Waldbojorn (Technical University of Denmark)
Jacob Høgh (Technical University of Denmark)
Henrik Stang (Technical University of Denmark)
Christian Berggreen (Technical University of Denmark)
Jacob Wittrup-schmidt (Technical University of Denmark)
Kim Branner (Technical University of Denmark)

AN EXPERIMENTAL AND NUMERICAL STUDY OF THE
Tonny Nyman (Saab AB)
Alann Andre
Malin Akermo (Royal Institute of Technology)
Oral Presentation (Continued)

Sören Nilsson (Swerea SICOMP)
Monica Norrby (Royal Institute of Technology)

CO2-LASER-ASSISTED PRODUCTION OF HYBRID FIBER-REINFORCED THERMOPLASTIC COMPOSITES
Christian Brecher (Fraunhofer Institute for Production Technology)
Michael Emonts (Fraunhofer Institute for Production Technology)
Joffrey Stimpfl (Fraunhofer Institute for Production Technology)

Progressive failure analysis of composite laminates including strain rate effect
Jingfen Chen (University of New South Wales)
Evgeny V Morozov (University of New South Wales)
Krishnakumar Shankar (Australian Defence Force Academy)

IMPACT BEHAVIOUR OF ELASTOMER BASED FIBRE METAL LAMINATES
Raj Das (University of Auckland)
Sanjeev Rao (Centre for Advanced Composite Materials)
Richard Lin

INTERLAMINAR FRACTURE TOUGHNESS OF NACRE: A HIGH PERFORMANCE BILOGICAL COMPOSITE
Ahmad Khayer dastjerdi (McGill University)
Reza Rabiei (McGill University)
Francois Barthelat (McGill University)

FAILURE MODELLING OF IMPREGNATED FLAX YARNS FROM FIBRE AND INTERPHASE PROPERTIES
Shyam Mohan Panamoottil (University of Auckland)
Raj Das (University of Auckland)
Krishnan Jayaraman (University of Auckland)

Carbon nanotube (CNT)-Aluminum: Towards CNT-Reinforced Aluminum Conductor Cables
Orson Bourne (National Research Council Canada)
Jingwen Guan (National Research Council of Canada NRC)
Michael Jakubinek (National Research Council Canada)
Oral Presentation (Continued)

Shuqiong Lin (National Research Council Canada)
Ryan Macneil (National Research Council Canada)
Benoit Simard (National Research Council Canada)
Ainul Akhtar (University of British Columbia)
Frank Ko (University of British Columbia)
Jason Lo (CANMET, Natural Resources Canada)
Ruby Zhang (CANMET, Natural Resources Canada)

FINITE ELEMENT MULTI-SCALE MODELING OF THE FAILURE MECHANISMS IN A 3D WOVEN COMPOSITE
Lucien Laiarinandrasana (Ecole Nationale Superieure des Mines de Paris)
Wassim Trabelsi (Ecole Nationale Superieure des Mines de Paris)
Alain Thionnet (Ecole Nationale Superieure des Mines de Paris)

INVESTIGATION OF THE FAILURE BEHAVIOR OF SHORT-FIBER-REINFORCED THERMOPLASTICS WITH MOLDED IN HOLES
R. byron Pipes (Purdue University)

INSPECTION OF COMPOSITE COMPONENTS BY PURE GUIDED WAVE BASED ULTRASONIC IMAGING WITH ONE PHASED ARRAY PROBE.
Michel Castaings (Universite Bordeaux I)
Alban Leleux (Universite Bordeaux I)
Philippe Micheau (University of Sherbrooke)

RTM optimal injection velocity determination by capillary rise measurements using Infrared thermography
Christophe Ravey (Ecole Polytechnique de Montreal)
Edu Ruiz (Ecole Polytechnique)
François Trochu (Ecole Polytechnique de Montreal)

SELF-DISPERSION OF CARBON NANOTUBES IN THERMOPLAST POLYMER
Ekaterina Pavlenko (Universite Paul Sabatier (Toulouse III))
Victoria Tishkova (Centre National de la recherche scientifique CNRS)
Pascal Puech (Universite Paul Sabatier (Toulouse III))
Wolfgang Bacsa (Universite Paul Sabatier (Toulouse III))
CARBON FIBRE SENSOR FOR CRACK MONITORING OF COMPOSITE MATERIALS
Tobias Müller(Universität der Bundeswehr München)
Alexander Horoschenkoff(Hochschule München)
Helmut Rapp(Universität der Bundeswehr München)

STIFFNESS EVALUATION OF THE COMPOSITE LAMINATES WITH WAVY PLIES AND THEIR STABILITY ANALYSIS
Hamid Dalir(Bombardier)
Jean-Evrard Brunel(Bombardier)
Franck Dervault(Borland Software Corporation)
Alain Landry

Void minimization and optimization of injection velocity in RTM processing
Christophe Ravey(Ecole Polytechnique de Montreal)
François Lebel(Ecole Polytechnique de Montreal)
Edu Ruiz(Ecole Polytechnique)
Hubert Courteau-godmaire(Ecole Polytechnique de Montreal)
François Trochu(Ecole Polytechnique de Montreal)

The Influence of Delamination Opening in Carbon Fibre/Epoxy Laminates on Signal Characteristics of Pulse Phase Thermography
Henrik Schmutzler(Technische Universität Hamburg-Harburg)
Narumichi Sato(Technische Universität Hamburg-Harburg)
Alejandro Garcia(Technische Universität Hamburg-Harburg)
Martin Schuett(Technische Universität Hamburg-Harburg)
Hans Wittich(Technische Universität Hamburg-Harburg)
Masaaki Nishikawa(Kyoto University)
Hermann Rohling(Technische Universität Hamburg-Harburg)
Masaki Hojo(Kyoto University)
Karl Schulte(Technische Universität Hamburg-Harburg)

IRREVERSIBLY ABSORBED ENERGY AND DAMAGE IN GFRP LAMINATES IMPACTED AT LOW VELOCITY
Oral Presentation (Continued)

Giuseppe Villani (University of Naples)
Claudio Leone (University of Naples Federico II)
Valentina Lopresto (University of Naples Federico II)
Antonio Langella (University of Naples Federico II)
Giancarlo Caprino (University of Naples Federico II)

Micro-Pullwinding - An Automated Production Technology for Medical Devices 4241
Christian Brecher (Fraunhofer Institute for Production Technology)
Michael Emonts (Fraunhofer Institute for Production Technology)
Alexander Brack (Fraunhofer Institute for Production Technology)
Markus Eckert (Fraunhofer Institute for Production Technology)

Particle-Based Modelling of the Geometry and Mechanical Behaviour of Textile Reinforcements 4249
Reza Samadi (University of Ottawa)
Francois Robitaille (University of Ottawa)

Mechanical Behaviour of Glass Fiber Reinforced Aluminium Honeycomb Sandwiches 4259
Emre Kara (Hitit University)
Vincenzo Crupi (University of Messina)
Gabriella Epasto (University of Messina)
Eugenio Guglielmino (University of Messina)
Halil Aykul

Experimental and Numerical Investigations on Friction Effects in 4ENF Fracture Tests 4269
John Botsis (Ecole Polytechnique Federal de Lausanne)

Electrical Conductivity of Hybrid/Patterned Nanocomposites Films 4277
Rouhollah Dermanaki Farahani (Ecole Polytechnique de Montreal)
Daniel Therriault (Ecole Polytechnique de Montreal)

Preparation of Graphene with Controlled Reduction Degree and Study of Electromagnetic Properties of Their Nanocomposites 4287
Oral Presentation (Continued)

Qi Dong (Beihang University)
Yan Zhao (Beihang University)
Yijun Jiang (COMAC Sadri)
Xionggang Shen (Beihang University)

DAMAGE TOLERANCE OF STIFFENED COMPOSITE STRUCTURES
Joanne Emma Davies (University of Southampton)
Conf430668 J Sobey (University of Southampton)
James I. r. Blake (University of Southampton)
Ajit Shenoi (University of Southampton)

Adhesion between a flax fiber and biobased thermoset matrix
Laetitia Marrot (Universite de Bretagne Sud)

DURABILITY OF CARBON/CERAMIC COMPOSITES SUBJECTED TO ELECTRICAL LOAD
Teresa Gumula (AGH University of Science and Technology)
Felix L. Martinez (Universidad Politecnica de Cartagena)

COMPATIBILITY AND FLAMMABILITY STUDY OF UNSATURATED POLYESTER
/FUNCTIONALISED PHENOLIC RESIN BLEND MATRICES FOR GLASS REINFORCED COMPOSITES
Latha Krishnan (University of Bolton) Baljinder Kandola (University of Bolton)

ENERGY HARVESTING FROM FLUID FLOW USING A VERTICAL COMPOSITE PIEZOELECTRIC LEAF-STALK CONFIGURATION
Arvind Deivasigamani (Royal Melbourne Institute of Technology)
Jesse Mark Mccarthy (RMIT University)
Sabu John (RMIT University)
Simon Watkins (RMIT University)
Floreana Coman

Floating node method and virtual crack closure technique for modeling matrix cracking-delamination migration
Nelson V De carvalho (National Institute of Aerospace)
Bo Yang Chen (Imperial College of Science, Technology and Medicine, University of London)
Oral Presentation (Continued)

Silvestre T Pinho (Imperial College of Science, Technology and Medicine, University of London)
Pedro M Baiz (Imperial College of Science, Technology and Medicine, University of London)
James Gordon Ratcliffe (National Institute of Aerospace)
Tay T Earn (National University of Singapore)

**USING THE LAP-SHEAR TEST TO MEASURE POLYMER COMPOSITE INTERFACIAL STRENGTH**
Jeff Wood (University of Western Ontario)
Ian N Swentek (University of Western Ontario)

**Thin ply composites: Experimental characterization and modeling**
Joël Cugnoni (École polytechnique fédérale de Lausanne)
Robin Amacher (École polytechnique fédérale de Lausanne)
John Botsis (École Polytechnique Federal de Lausanne)

**Basalt fiber reinforced poly(lactic acid) composites for engineering applications**
Tibor Czigany (Budapest University of Technology and Economics)
Jozsef Gabor Kovacs (Budapest University of Technology and Economics)
Tamas Tabi (Budapest University of Technology and Economics)

**Understanding the Lamination Process to improve Composite Manufacturing**
Michael Philip Elkington (University of Bristol)
Carwyn Ward (University of Bristol)
Anna Chatzimichali (University of Bristol)
Leo Dominic Bloom (University of Bristol)
Kevin Potter (University of Bristol)

**On Prepreg Properties and Manufacturability**
Leo Dominic Bloom (University of Bristol)
Carwyn Ward (University of Bristol)
Anna Chatzimichali (University of Bristol)
Kevin Potter (University of Bristol)
Michael Philip Elkington (University of Bristol)

**STUDY OF NON-LINEAR TENSILE BEHAVIOUR OF DISCONTINUOUS CARBON-EPOXY PREPREG COMPOSITES**
Oral Presentation (Continued)

Gergely Czel (University of Bristol)
Michael R Wisnom (University of Bristol)

NUMERICAL ANALYSIS ON CURE-INDUCED DEFORMATION OF FIBROUS COMPOSITE LAMINATES
Pan Li (Shandong University)
Yuxi Jia (Shandong University)
Peng Qu (Shandong University)
Xiaoxia Wang
Shanlong Li (Shandong University)

OPTIMAL DESIGN OF A COMPOSITE STRUCTURE RELEVANT TO LAMINATE DESIGN GUIDELINES
Alexis Lasseigne (ONERA)
François-xavier Irisarri (ONERA)
Rodolphe Le riche (Ecole Nationale Superieure des Mines de St-Etienne)

OPTIMIZED FIBER STEERING AND LAYER STACKING FOR ELASTICALLY TAILORED, DAMAGE TOLERANT LAMINATES
Wenli Liu (University of Bath)
Richard Butler (University of Bath)
Andrew Thomas Rhead (University of Bath)

NUMERICAL ANALYSIS ON LOW VELOCITY IMPACT DAMAGE OF LAMINATED COMPOSITES BY COMBINING CONTINUUM DAMAGE MECHANICS WITH COHESIVE ZONE MODEL
Xiaochen Sun (Shandong University)
Peng Qu (Shandong University)
Yunli Guo (Shandong University)
Yuxi Jia (Shandong University)

ANALYSIS ON LOW VELOCITY IMPACT DAMAGE OF LAMINATED COMPOSITES USING CDM AND CZM MODELS
Yuxi Jia (Shandong University)

Effect of Fluid-Structure Interactions on Underwater Implosion Dynamics
CONSTITUTIVE MODELING OF POLYMERIC MATRIX UNDER MULTI-AXIAL STATIC AND DYNAMIC LOADING
Isaac M Daniel(Northwestern University)
Brian Werner(Northwestern University)

PRESTRESS LOSS MONITORING OF NEAR-SURFACE MOUNTED CFRP STRIPS EMBEDDED IN CONCRETE BASED ON OFBG SENSORS
Chuan Wang(Harbin Institute of Technology)
Lijuan Cheng(University of California, Davis)

MODELING ELASTIC PROPERTIES OF RANDOMLY ORIENTED FIBER COMPOSITES
Hadi Moussaddy(Ecole Polytechnique de Montreal)
Daniel Therriault(Ecole Polytechnique de Montreal)
Martin Lévesque(Ecole Polytechnique de Montreal)

INVESTIGATION OF THE PROPERTIES OF CARBON FIBER / EPOXY COMPOSITE LAMINATES FABRICATED WITH CO-RFI PROCESS
Xuqiang Ma(Beihang University)
Yizhuo Gu(Beihang University)
Min Li(Beihang University)
Yanxia Li(Beijing University of Aeronautics and Astronautics)
Zuoguang Zhang(Beijing University of Aeronautics and Astronautics)

Turning machinability of fiber reinforced aluminum alloy composites
Kazunori Asano(Kinki University)
Kenji Higashi(KUBOTA Corporation)
Hiroyuki Yoneda(Kinki University)

SELF-HEALING OF A FIBRE REINFORCED POLYMER COMPOSITE MATERIAL USING METAL TRIFLATES AS CATALYTIC CURING AGENTS
Tim S Coope(University of Bristol)
Ian P Bond(University of Bristol)
Oral Presentation (Continued)

Richard S Trask (University of Bristol)
Duncan F Wass (University of Bristol)

THERMAL BEHAVIOR OF SUGARCANE BAGASSE/PP COMPOSITES USING LIGNIN AS COMPATIBILIZER AGENT
Patrícia Câmara Miléo (Universidade de Sao Paulo)

Effect of microsphere content on fire performance and thermomechanical properties phenolic resole syntactic foam composites
Mounia Bouslah (Ecole Centrale de Lyon)
Michelle Salvia (Ecole Centrale de Lyon)
Isabelle Descheres (Institut Textile et Chimique de Lyon)
Bruno Berthel (Ecole Centrale de Lyon)
Stephane Benayoun (Ecole Centrale de Lyon)

EXPERIMENTAL AND NUMERICAL VALIDATION OF AN ANALYTICAL CALCULATION METHOD FOR NOTCHED FIBRE-REINFORCED MULTILAYERED COMPOSITES UNDER BENDING AND COMPRESSION LOADS
Bernd Grüber (Technische Universität Dresden)
Werner A. Hufenbach (Technische Universität Dresden)
Robert Gottwald (Technische Universität Dresden)
Martin Lepper (Technische Universität Dresden)
Binquan Zhou (Technische Universität Dresden)

EXPERIMENTAL INVESTIGATION OF SCARF JOINTS WITH MISMATCHED ADHERENDS
Jun yi Goh (Royal Melbourne Institute of Technology)
Chun H Wang (RMIT University)
Adrian Orifici (Royal Melbourne Institute of Technology)

CURE AND THERMO-MECHANICAL CHARACTERISTICS OF BIO-BASED POLYESTER COMPOSITES USING HYDROPEROXIDE INITIATORS
Eldon Triggs (Tuskegee University)
Michael Wells
Mahesh Hosur (Tuskegee University)
Alfred Tcherbi-narteh (Tuskegee University)
Oral Presentation (Continued)

Shaik Jeelani (Tuskegee University)

TENSILE STRENGTH MODELING OF GLASS FIBER-POLYMER COMPOSITES AND SANDWICH MATERIALS IN FIRE  4570
Stefanie Feih (Royal Melbourne Institute of Technology)
Aslina Anjang (Royal Melbourne Institute of Technology)
Venkata Chevali (Royal Melbourne Institute of Technology)
Everson Kandare (Royal Melbourne Institute of Technology)
Adrian Mouritz (Royal Melbourne Institute of Technology)

FINITE ELEMENT MODELING OF BALLISTIC IMPACT ON MULTI-LAYER WOVEN FABRICS  4578
Deju Zhu (Hunan University)
Barzin Mobasher (Arizona State University)
S.d. Rajan (Arizona State University)

SANDWICH BEAM WITH INTERNAL RESONATORS SUBJECTED TO BLAST LOADS  4586
Bhisham N Sharma (Purdue University)
C.t. Sun (Purdue University)

TIME-TEMPERATURE BEHAVIOUR OF POLYIMIDE MATRIX  4594
Thibaut Crochon (Ecole Polytechnique de Montreal)
Martin Lévesque (Ecole Polytechnique de Montreal)
Chun Li (National Research Council Canada)
Simon Dulong (Ecole Polytechnique de Montreal)

STRUCTURATION OF ADHESION PROMOTERS AT INTERFACES: A MOLECULAR LEVEL INVESTIGATION  4603
Maurice Brogly (Universite de Haute-Alsace)

Manufacturing of prepreg with microcapsules for self healing composites  4611
Sang yup Kim (University of Illinois at Urbana-Champaign)
Nancy R Sottos (University of Illinois at Urbana-Champaign)
Scott R White (University of Illinois at Urbana-Champaign)

DAMAGE ANALYSIS OF ALUMINUM / CFRP HYBRID BEAM UNDER THREE POINT BENDING  4619
Oral Presentation (Continued)

Hee chul Kim (Korea Advanced Institute of Science & Technology)
Dong kil Shin (Korea Advanced Institute of Science & Technology)
Jung goo Kim (Korea Advanced Institute of Science & Technology)
Kum cheol Shin (Shin Ansan University)
Jung ju Lee (Korea Advanced Institute of Science & Technology)

Influence of the shearing of textiles on the in-plane permeability
Matthias Arnold (Institut fuer Verbundwerkstoffe GmbH)
Massimo Cojutti (Audi AG)
Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

EXACT BUCKLING SOLUTION OF COMPOSITE WEB/FLANGE ASSEMBLY
Jeremie Sauve (École de technologie supérieure - Université du Québec)
Martine Dube (École de technologie supérieure - Université du Québec)
Guillaume Corriveau (Bombardier)
Franck Dervault (Borland Software Corporation)

NOVEL COMPOSITE-COMPOSITE JOINING TECHNOLOGY WITH THROUGH THICKNESS REINFORCEMENT FOR ENHANCED DAMAGE TOLERANCE
Steffen Stelzer (Montanuniversitat Leoben)
Stephan Ucsnik (Austrian Institute of Technology)
Jürgen Tauchner (FACC AG)
Thomas Unger (Montanuniversitat Leoben)
Gerald Pinter (Montanuniversitat Leoben)

EFFECT OF SEA WATER CONFINEMENT ON CYCLIC FATIGUE BEHAVIOR OF MARINE COMPOSITES
Akawut Siriruk (University of Tennessee - Knoxville)
Dayakar Penumadu (University of Tennessee - Knoxville)

POST-BUCKLING OF DYNAMICALLY LOADED COMPOSITE PANELS USING A REDUCED ORDER MODEL
Eelco Jansen (Universitat Hannover)
Tanvir Rahman (TNO DIANA BV)
Alexander Meurer (Universitat Hannover)
Oral Presentation (Continued)

Raimund Rolfes (Universitat Hannover)

ENERGY HARVESTING AND SHOCK MITIGATION IN COMPOSITE STRUCTURES 4670
Chris Lynch (University of California, Los Angeles)

BIOMECHANICAL PROPERTIES OF RESORBABLE COMPOSITE BONE FRACTURE REPAIR PLATES 4676
Ify Ahmed (University of Nottingham)

UNCERTAINTY ANALYSIS FOR OPTICAL PERMEABILITY MEASUREMENT OF REINFORCING TEXTILES 4685
Ewald Fauster (Montanuniversitat Leoben)
Harald Grössing (Montanuniversitat Leoben)
Ralf Schledzewski (Montanuniversitat Leoben)

SYNTHESIS OF SiC-WHISKERS VIA SOL-GEL TECHNIQUE IN BULK OF SiC-COMPOSITE 4695
Nikolay Petrovich Simonenko (Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences)
Vladimir Georgievich Sevastyanov (Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences)
Nikolay Timofeevich Kuznetsov (Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences)
Elizaveta Petrovna Simonenko (Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences)

MONITORING AND SIMULATION OF THE VACUUM INFUSION PROCESS 4703
Alper Aktas (University of Southampton)
Stephen Boyd (University of Southampton)
Ajit Shenoi (University of Southampton)

Electromagnetic Properties of Cobalt–Reduced Graphene Oxide (Co-RGO)/ Epoxy Composites 4715
Yan Wang (Beijing University of Aeronautics and Astronautics)
Yan Zhao (Beihang University)
Yuqin Su (Beihang University)
Xiaohua Lu (Tsinghua University)

Effect of specimen history on measured in-plane permeability of fabrics 4723
Oral Presentation (Continued)

Andreas Endruweit (University of Nottingham)
Xuesen Zeng (University of Nottingham)
Andrew C Long (University of Nottingham)

MODELLING SLIT TAPE DEPOSITION DURING AUTOMATED FIBRE PLACEMENT 4735
Fabrice Helenon (National Composites Centre)
Dirk Lukaszewicz (BMW Group)
Dmitry Ivanov (University of Bristol)
Kevin Potter (University of Bristol)

HOMOGENIZATION MODELS FOR POLYMER-CLAY NANOCOMPOSITES: ONE AND TWO-STEP APPROACHES 4747
Maryam Pahlavanpour (Ecole Polytechnique)
Pascal Hubert (McGill University)
Martin Lévesque (Ecole Polytechnique de Montreal)

Effect of Cyclic Hygrothermal Aging on the Interlaminar Shear Strength of Carbon Fiber/Bismaleimide (BMI) Composite 4756
Ye Li (Beihang University)
Yan Zhao (Beihang University)
Dong Xiao Sui (Beihang University)

Improvement of Interfacial Shear Strength Using Electrostatically Deposited Nano-particles 4766
Benjamin Rutz (University of Washington)
John C Berg (University of Washington)

Recycling of high performance thermoplastic composites with high voltage fragmentation 4776
Clemens Dransfeld (University of Applied Sciences and Arts Northwestern Switzerland)
Maxime Roux (University of Applied Sciences and Arts Northwestern Switzerland)
Nicolas Eguemann (Cross Composite AG)
Lian Giger (Cross Composite AG)

A NEW REGULARIZED VIRTUAL FIELDS METHOD FOR COMPOSITE MATERIAL PARAMETERS IDENTIFICATION 4784
Behzad Rahmani (Ecole Polytechnique de Montreal)
Oral Presentation (Continued)

Martin Lévesque (Ecole Polytechnique de Montreal)
Isabelle Villemure (Ecole Polytechnique de Montreal)

SURFACE PRE-TREATMENT OF CFRP BY USING LASER RADIATION 4792
Fabian Fischer (Technische Universitat Carolo-Wilhelmina Braunschweig)
Stefan Kreling (Technische Universitat Carolo-Wilhelmina Braunschweig)
Klaus Dilger (Technische Universitat Carolo-Wilhelmina Braunschweig)

SYNCHROTRON COMPUTED TOMOGRAPHY OF FATIGUE MICROMECHANISMS IN CFRP 4802
Serafina Consuelo Garcea (University of Southampton)
Mark N Mavrogordato (University of Southampton)
Anna E Scott (University of Southampton)
Ian Sinclair (University of Southampton)
Simon M Spearing (University of Southampton)

PARAMETRIC STUDY OF SIMULATION PARAMETERS FOR MOLECULAR DYNAMICS 4811
MODELING OF REACTIVE CARBON GASES USING REAXFF
Benjamin D. Jensen (Michigan Technological University)
Ananyo Bandopadhyay (Michigan Technological University)
Kristopher E. Wise (NASA)
Gregory Odegard (Michigan Technological University)

BINARY BRUSHES: A NOVEL APPROACH TOWARDS ENHANCED INTERFACIAL TUNABILITY 4820
IN MULTIFUNCTIONAL POLYMER NANOCOMPOSITES
Bharath Natarajan (Rensselaer Polytechnic Institute)
Ying Li (Rensselaer Polytechnic Institute)
Tony Neely (University of South Carolina)
Atri Rungta (University of South Carolina - Columbia)
Brian C Benicewicz (University of South Carolina - Columbia)
Linda Schadler (Rensselaer Polytechnic Institute)

AUTHORITY OPTIMISATION FOR RESONANT MORPHING CONTROL OF BI-STABLE WING-
SHAPED COMPOSITES
Andres Felipe Arrieta diaz (Swiss Federal Institute of Technology, Zurich)
Onur Bilgen (Old Dominion University)
DIELECTROPHORETICALLY STRUCTURED PIEZOELECTRIC COMPOSITES
Hamideh Khanbareh (Delft University of Technology)
Pim Groen (Delft University of Technology)
Sybrand Van der Zwaag (Delft University of Technology)

RESISTANCE OF NICKEL-COATED THERMALLY CYCLED COMPOSITES TO LUNAR DUST ABRASION
Marie-Josée Potvin (Agence spatiale canadienne Canadian Space Agency)
Francis Martin (Agence spatiale canadienne Canadian Space Agency)

The Design of A Pre-Warped Bus Door For Low Cost Composite Manufacturing
Zhi-Cheng Yu (Composites Innovation Centre)

SUBCOMPONENT TESTING FOR RotorBLADES OF WIND TURBINES
Arno Van Wingerde (Fraunhofer IWES)
Florian Sayer (Fraunhofer IWES)
Eric Putnam (Fraunhofer IWES)
Falko Bürkner (Fraunhofer IWES)
Alexandros Evangelos Antoniou (Fraunhofer IWES)

THE EFFECT OF TEMPERATURE ON THE MIXED-MODE INTERLAMINAR TOUGHNESS AND FATIGUE DELAMINATION GROWTH OF FIBRE REINFORCED PLASTICS
Georgia Charalambous (University of Bristol)
Giuliano Allegri (University of Bristol)

Thermal and ultrasonics damage monitoring and characterization in woven composites
Jean-Michel Roche (ONERA)

HIGH VELOCITY IMPACT RESPONSE OF E-GLASS/EPOXY COMPOSITES MODIFIED WITH NH2-MWCNT
Muhammad M Rahman (Tuskegee University)
Mahesh Hosur (Tuskegee University)
Shaik Zainuddin (Tuskegee University)
Shaik Jeelani (Tuskegee University)

**CURE MULTIPHYSIC COUPLINGS EFFECTS ON THE DYNAMIC BEHAVIOUR OF A THICK EPOXY**
Christian Jochum (École Nationale Supérieure de Techniques Avancés, Bretagne)

**Multi-scale modelling of fibre bundles**
Nilanjan Das Chakladar (University of Manchester)
Partha Mandal (University of Manchester)
Prasad Potluri (University of Manchester)

**Strengthening of Powdermetallurgically Produced Aluminum by Nanoscale Particles**
Alla Kasakewitsch (Technische Universitat Clausthal)

**MOLECULAR MODELING OF EPON-862/GRAPHITE COMPOSITES: INTERFACIAL CHARACTERISTICS**
Cameron Hadden (Michigan Technological University)

**Lock-in thermographic inspection of a hole defect in dental composite restoration**
Ja-uk Gu (Hanyang University)
Nak-sam Choi (Hanyang University)

**Evaluating deformability of non-crimp fabric and mechanical performance of non-crimp fabric composites**
Long Li (Beijing University of Aeronautics and Astronautics)
Yan Zhao (Beihang University)
Lijun Zhang (Beihang University)
Wei Li (Hafei Aviation Industry Co. Ltd)

**Experimental investigation of the extension/twist coupling in rotating composite laminates**
Damien Reveillon (FEMTO-ST)
Vincent Placet (FEMTO-ST)
Stani Carbillet (FEMTO-ST)
Emmanuel Foltete (FEMTO-ST)
Oral Presentation (Continued)

Patrick Sandoz (Universite de Franche-Comte)

**COMPRESSiON AFTER IMPACT STRENGTH OF A BUCKLING RESISTANT TOW STEERED PANEL**
Andrew Thomas Rhead (University of Bath)
Richard Butler (University of Bath)
Wenli Liu (University of Bath)
Stephen Richard Hallett (University of Bristol)
Byungchul Kim (University of Bristol)

**Fiber orientation assessment in carbon fiber reinforced composites using infrared thermography**
Henrique Coelho Fernandes (Laval University)
Xavier Maldague (Laval University)

**STUDY ON PREDICTION OF PENETRATION ENERGY FOR CA/EP COMPOSITE LAMINATES SUBJECTED TO HIGH-VELOCITY IMPACT USING QUASI-STATIC PERFORATION EQUATION AND KINECTIC ENERGY MODEL**
Hyun-jun Cho (Chungnam National University)
Seokje Lee (Chungnam National University)
In-gul Kim (Chungnam National University)
Kyeongsik Woo (Chungbuk National University)

**Modelling effects of geometric variability on mechanical properties of 2D textile composites**
Mikhail Matveev (University of Nottingham)
Andrew C Long (University of Nottingham)
Ivor Arthur Jones (University of Nottingham)
Guan Lu (First Aircraft institute, AVIC)

**SEMI-ANALYTICAL POST-BUCKLING AND ULTIMATE STRENGTH ANALYSIS OF COMPOSITE PLATES**
Qiao jie Yang (University of Oslo)
Brian Hayman (University of Oslo)

**STACKING SEQUENCE EFFECTS IN OVER-HEIGHT COMPACT TENSION TESTS OF QUASI-ISOTROPIC LAMINATES**
Oral Presentation (Continued)

Xiaodong Xu (University of Bristol)
Michael R Wisnom (University of Bristol)
Stephen Richard Hallett (University of Bristol)
Navid Zobeiry (University of British Columbia)
Steven A Leslie (University of British Columbia)
Anoush Poursartip (University of British Columbia)
Reza Vaziri (University of British Columbia)

Very High Cycle Fatigue of Fibre-Reinforced Composites: An Alternative Experimental Approach
Till Julian Adam (Technische Universitat Carolo-Wilhelmina Braunschweig)
Peter Horst (Technische Universitat Carolo-Wilhelmina Braunschweig)

SIMULTANEOUS BINDING AND TOUGHENING CONCEPT FOR TEXTILE REINFORCED IN SITU POLYMERIZED CYCLIC BUTYLENE TERETPHALATE COMPOSITES
Wangqing Wu (Technische Universitat Clausthal)

Enhanced Fatigue Testing of Composites
Peter Bradby spiros Bailey (Instron)
Christian Hoehl (Instron)
Payam Jamshidi (University of Manchester)
Steve Squires (Instron)
Andrew J Smith (Instron)

Structural design and validation of a 10 kW wind turbine blade
Louis-charles Forcier (École de technologie supérieure - Université du Québec)
Jonathon Sumner (Dawson College)
Tommy Gagnon (École de technologie supérieure - Université du Québec)
Jean-François Charron
Simon Joncas (École de technologie supérieure - Université du Québec)

Towards realistic geometric modeling of woven fabrics
Guillaume Couégnat (Université Bordeaux I)
Hichem Ayadi (Université Bordeaux I)
Clément Saurat (Université Bordeaux I)
Oral Presentation (Continued)

Eric Rohmer (Universite Bordeaux I)

LIGHTNING STRIKE PROTECTION FOR COMPOSITE LAMINATES BY PITCH BASED CARBON FIBER SKIN
Norihiko Hosokawa (Mitsubishi Plastics Inc.)
Teruo Ooto (Mitsubishi Plastics Inc.)
Shinya Kubo (Mitsubishi Plastics Inc.)
Anzai Anzai (Mitsubishi Plastics Inc.)
Akira Nakagoshi (Mitsubishi Plastics Inc.)
Akihiko Yoshiya (Mitsubishi Plastics Inc.)

Tailored Aligned-Carbon Nanotube Nanocomposites for Energy Storage
Noa Lachman (Massachusetts Institute of Technology)
Brian Wardle (Massachusetts Institute of Technology)

Influence Of Temperature On Phase Transitions In Glass Fiber Reinforced Epoxies For Electrical Slot Insulation
Rudi Velthuis (ABB Schweiz AG - Corporate Research)
Anastasia Peitz (ABB Schweiz AG - Corporate Research)

Generation, Modelling and Validation of Statistically Equivalent Micro-Structures
Frank Gommer (University of Nottingham)
Andreas Endruweit (University of Nottingham)
Andrew C Long (University of Nottingham)

DAMAGE SUPPRESSION IN THIN PLY ANGLE-PLY CARBON/EPOXY LAMINATES
Jonathan Fuller (University of Bristol)
Michael R Wisnom (University of Bristol)

EXPERIMENTAL STUDY OF OBLIQUE IMPACTS ON HELICOPTER BLADES – FORCE GAUGING BY DIGITAL IMAGE CORRELATION
Jean-charles Passieux (Institut Clément Ader)
Pablo Navarro (Institut Clément Ader)
Julien Aubry (Institut Clément Ader)
Steven Marguet (Institut Clément Ader)
Oral Presentation (Continued)

Jean-françois Ferrero (Institut Clément Ader)
Jean-noel Périé (Institut Clément Ader)

INFLUENCE OF TEXTILE PARAMETERS AND LAMINATE BUILD-UP ON SURFACE QUALITY OF THERMOPLASTIC FIBER-REINFORCED COMPOSITES
Klaus Hildebrandt (Institut fuer Verbundwerkstoffe GmbH)
Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)
Felix Schulte-hubbert (Institut fuer Verbundwerkstoffe GmbH)

RESIDUAL STRESS MEASUREMENTS OF GLASS/EPOXY COMPOSITE LAMINATE USING A NEW TYPE OF SPECIMEN DESIGN
Johnny Jakobsen (Aalborg University)
Jens H. Andreasen (Aalborg University)
Ole T. Thomsen (Aalborg University)

A VIRTUAL TEST-BED FOR THE PREDICTION OF HOLISTIC ELASTIC PROPERTIES OF UNIDIRECTIONAL COMPOSITES
Ambrose Ighofovwe Akpoyomare (University of Greenwich)
Michael Ihemelandu Okereke (University of Greenwich)

ANALYTICAL AND FINITE ELEMENT ANALYSES ON RELIABILITY OF CARBON FIBRE REINFORCED PLASTICS
Heng-yi Chou (Ecole Nationale Superieure des Mines de Paris)
Sébastien Joannès (Ecole Nationale Superieure des Mines de Paris)
Anthony R. Bunsell (Ecole Nationale Superieure des Mines de Paris)
Alain Thionnet (Ecole Nationale Superieure des Mines de Paris)

EFFECT OF BASALT FIBRE HYBRIDIZATION ON THE LOW VELOCITY IMPACT BEHAVIOUR OF WOVEN CARBON FIBRE/EPOXY LAMINATES
Luca Ferrante (University of Roma La Sapienza)
Fabrizio Sarasini (University of Roma La Sapienza)
Jacopo Tirillò (University of Roma La Sapienza)
Marco Valente (University of Roma La Sapienza)
Teodoro Valente (University of Roma La Sapienza)
Salvatore Cioffi (Consiglio Nazionale delle Ricerche)
Oral Presentation (Continued)

Salvatore Iannace (National Research Council)
Luigi Sorrentino (Consiglio Nazionale delle Ricerche)

RANDOM DISTURBING MODEL FOR THERMAL EXPANSION PROPERTY PREDICTION OF UNIDIRECTIONAL COMPOSITE
Zhiguo Ran (Beihang University)
Ying Yan (Beijing University of Aeronautics and Astronautics)
Lei Yang (Beihang University)

HIERARCHICAL LIGHTWEIGHT COMPOSITES: GF FABRICS EMBEDDED IN MICROCELLULAR NANOCOMPOSITE PEN
Luigi Sorrentino (Consiglio Nazionale delle Ricerche)
Livia Cafiero (Consiglio Nazionale delle Ricerche)
Salvatore Iannace (National Research Council)

IMPACT BEHAVIOR OF A SIMPLE MULTIFUNCTIONAL PLATE STRUCTURE
Teo Mudric (University of Padua)
Ugo Galvanetto (University of Padua)
Alessandro Francesconi (University of Padua)
Cinzia Giacomuzzo (University of Padua)
Mirco Zaccariotto (University of Padua)
Antonio Mattia Grande (Polytechnic Institute of Milan)
Luca Di Landro (Polytechnic Institute of Milan)

Influence of Material Flow in Compression Molding on Mechanical Properties of Discontinuous CF/PP
Nozomi Mitsui (The University of Tokyo)
Kazuro Kageyama (Tokyo University)
Jun Takehashi (The University of Tokyo)
Kiyoshi Uzawa (Kanazawa Institute of Technology)
Isamu Osawa (Tokyo University)

FATIGUE AND STATIC DAMAGE MODELLING OF CONTINUOUS GLASS FIBRE/EPOXY COMPOSITE
Rim Ben toumi (PSA Peugeot Citroen)
Oral Presentation (Continued)

Jacques Renard
Pongsak Nimdum (Ecole Nationale Superieure des Mines de Paris)
Martine Monin

INVESTIGATION OF PROCESS-RELATED DAMAGE DURING THERMAL PIERCING OF A THERMOPLASTIC COMPOSITE 5203
Nicholas W a Brown (The Welding Institute (TWI))
Chris M Worrall (The Welding Institute (TWI))
Ajay Kapadia (The Welding Institute (TWI))
Stephen L Ogin (University of Surrey)
Paul A Smith (University of Surrey)

RELEVANCE OF ENVIRONMENTAL INFLUENCES FOR LAMB WAVE BASED SHM WITH PIEZOELECTRIC ELEMENTS 5211
Konstantin Jonas Schubert (Faserinstitut Bremen e.V.)
Oliver Focke (Faserinstitut Bremen e.V.)
Axel Siegfried Herrmann (Universitat Bremen)

Kinetics of phase transformation in Ti-TiB composites characterised using high energy X-ray diffraction 5223
Ludovic Ropars (EADS France)
Moukrane Dehmas (Institut Jean Lamour - Universite de Lorraine)
Sophie Gourdet (EADS France)
David Tricker (Materion AMC)
Elisabeth Aeby-gautier (Centre National de la recherche scientifique CNRS)

Digital Image Correlation applied to Thermal Expansion of Composites 5235
Camille Flament (Ecole Centrale de Lyon)
Michelle Salvia (Ecole Centrale de Lyon)
Bruno Berthel (Ecole Centrale de Lyon)
Gerard Crosland

HIGH PERFORMANCE SELF-REINFORCED POLYLACTIC ACID BIOCOMPOSITES WITH DEGRADATION SENSING 5244
Fang Mai (Queen Mary and Westfield College, University of London)
Oral Presentation (Continued)

Experimental aspects and multiscale numerical description of the fatigue behavior of fiber reinforced polymers
Daniel Krause (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))
Gordon Just (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))
Janko Kreikemeier (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

Pre-Treatment of CFRP for Adhesive Bonding Using Low-Pressure Blasting
Stefan Kreiling (Technische Universitat Carolo-Wilhelmina Braunschweig)
Fabian Fischer (Technische Universitat Carolo-Wilhelmina Braunschweig)
Klaus Dilger (Technische Universitat Carolo-Wilhelmina Braunschweig)

Time and temperature dependence on the snap-through behaviour of adaptive bistable composites
Christian Kirvel (Technische Universitat Dresden)
Maik Gude (Technische Universitat Dresden)
Werner A. Hufenbach (Technische Universitat Dresden)

ENGINEERING AND MODELING OF TENSILE STRENGTH OF PAPER-THERMOSET COMPOSITES
Henri Kroeling (Technische Universitat Darmstadt)
Sabrina Mehlhase (Technische Universitat Darmstadt)
Narmin Nubbo (Fraunhofer Institute for Structural Durability and System Reliability LBF)
Johanna Fleckenstein (Fraunhofer Institute for Structural Durability and System Reliability LBF)
Angelika Endres
Frank Miletzky (PTS Fibre based solutions, Munich, Germany)
Samuel Schabel (Technische Universitat Darmstadt)

MODELLING DUAL-SCALE FLOW-DEFORMATION PROCESSES IN COMPOSITES MANUFACTURING
Mohammad Sadegh Rouhi (Chalmers University of Technology)
Maciej Wysocki (Swerea SICOMP)
Ragnar Larsson (Chalmers University of Technology)
Oral Presentation (Continued)

3YTZP-NANOALUMINA-NANODIAMOND COMPOSITES WITH GEMOLOGICAL PROPERTIES 5300
Luis Antonio Díaz (CINN-CSIC)

Effective properties for fiber composites with rhombic pattern and imperfect interface 5306
Harald Berger (Otto-von-Guericke Universität Magdeburg)

Fracture toughness behavior of alumina matrix composites at elevated temperature. 5312
Magdalena Szukowska (Institute of Advanced Manufacturing Technology)
Barbara Smuk (Institute of Advanced Manufacturing Technology)
Marek Boniecki (Institute of Electronic Materials Technology)

STUDYING THE HETEROGENEITY OF DISCONTINUOUS FIBER COMPOSITES USING A NEW FULL-FIELD STRAIN MEASUREMENT SYSTEM 5320
Kevin Johanson (University of Nottingham)
Lee T Harper (University of Nottingham)
Michael Johnson (University of Nottingham)
Andrew Kennedy (University of Nottingham)
Nicholas A Warrior (University of Nottingham)

Influence of Imperfections on Axial Buckling Load of Composite Cylindrical Shells 5332
Jendi Itjieh Kepple (University of New South Wales)
B. gangadhara Prusty (University of New South Wales)
Garth Morgan Kendall Pearce (University of New South Wales)
Donald Wainwright Kelly (University of New South Wales)
Rodney Thomson
Richard Degenhardt (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

COATED CARBON FIBRE BATTERY HALF-CARDS FOR STRUCTURAL BATTERY COMPOSITES 5342
Leif Erik Asp (Swerea SICOMP)
Tony Carlson (Swerea SICOMP)
Goeran Lindbergh (Royal Institute of Technology)
Simon Leijonmarck (Royal Institute of Technology)
Maria Hellqvist Kjell (Royal Institute of Technology)
Optimization of Variable Angle Tow Plates with One Free Edge Using Lamination Parameters

Zhangming Wu (University of Bristol)
Gangadharan Raju (University of Bristol)
Paul M Weaver (University of Bristol)

Fracture Mechanics of Composite Plies on Microscale

Christian Marotzke (BAM-Federal Institute for Materials Research & Testing)
Titus Feldmann (BAM-Federal Institute for Materials Research & Testing)

Fatigue behaviours of ±45°glassfibre dominated composites in wind turbine blades

Kuangyi Zhang (University of Manchester)

Experimental and Analytical Study of Composite Lattice Structure for Future Japanese Launcher

Keita Terashima (Japan Aerospace Exploration Agency)
Toru Kamita (Japan Aerospace Exploration Agency)
Gaku Kimura
Toshiyuki Uzawa
Takahira Aoki (The University of Tokyo)
Tomohiro Yokozeki (The University of Tokyo)

Mechanical Property of Carbon Nanotube Yarn Reinforced Epoxy

Yoshinobu Shimamura (Shizuoka University)
Kahori Oshima (Shizuoka University)
Keiichiro Tohgo (Shizuoka University)
Tomoyuki Fujii (Shizuoka University)
Yoku Inoue (Shizuoka University)

An Image Based Approach to Modelling Plastic Bonded Explosives (PBX) on the Micro Scale

Hari Arora (Imperial College of Science, Technology and Medicine, University of London)
Oral Presentation (Continued)

Maria Charalambides (Imperial College of Science, Technology and Medicine, University of London)
Edmund Tarleton (University of Oxford)
David M Williamson (University of Cambridge)
Claire L Leppard

INVESTIGATION OF CNT FILTERING ACCORDING TO IN-PLANE AND OUT-OF-PLANE LCM INJECTION STRATEGIES
Timo Grieser (Institut fuer Verbundwerkstoffe GmbH)
Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

MODELING THE FIRE STRUCTURAL PERFORMANCE OF ALUMINUM AND REINFORCED POLYMER COMPOSITES
Everson Kandare (Royal Melbourne Institute of Technology)

Characterization and modeling of damage at the mesoscale of woven polymer matrix composites.
Christian Fagiano (ONERA)
Martin Hirsekorn (ONERA)
Gael Grail (ONERA)
Vincent Chiaruttini (ONERA)

The Effects of Transverse Shear Deformation on Tow Steered Composite Laminates
Rainer J. Groh (University of Bristol)
Paul M Weaver (University of Bristol)

Detection of Permeability Variations in for early Quality Assessment in Liquid Composite Molding
Claudio Di Fratta (Swiss Federal Institute of Technology, Zurich)
Luigi Di lillo (Swiss Federal Institute of Technology, Zurich)
Florian Klunker (Swiss Federal Institute of Technology, Zurich)
Paolo Ermanni (Swiss Federal Institute of Technology, Zurich)

STUDY ON APPLICATION OF ABRASIVE WATER JET CUTTING TO THICK CFRP PLATE
Hirohito Hira (Daido University)
Oral Presentation (Continued)

Characterization of multi-functional composites with printed pressure sensors
Dominik Krumm (Chemnitz University of Technology)
Marko Illing (Chemnitz University of Technology)
Stephan Odenwald (Chemnitz University of Technology)

Optimum processing conditions for ultrasonic welding of thermoplastic composites
Irene Fernandez Villegas (Delft University of Technology)

Preparation and Characterization of MWCNTs/PVA Composite Hydrogels with High Mechanical and Electrochemical Property for Biomedical Application
Yudong Zheng (Beijing University of Science and Technology)
Kun Qiao (Beijing University of Science and Technology)
Wei Li (Beijing University of Science and Technology)
Lingling Ren (Beijing University of Science and Technology)
Yanyi Huang (Beijing University of Science and Technology)

Induction welding of PPS-Carbon composites: modeling and experimental results
Alfonso Maffezzoli (University of Salento)

FEA based initial design of a composite wind turbine blade
Owaisur Rahman Shah (École Nationale Supérieure de Techniques Avancées, Bretagne)

EFFECT OF VOIDS ON INITIAL FAILURE OF CFRP LAMINATES
Shigeki Aratama (Kawasaki Heavy Industries Ltd.)
Yusuke Tsumura (Kyoto University)
Masaaki Nishikawa (Kyoto University)
Masaki Hojo (Kyoto University)

EVALUATING LAYERED FIBER COMPOSITE STRUCTURES ACCOUNTING FOR THE ONSET OF DELAMINATION
Jaan Willem Simon (Rheinisch Westfälische Technische Hochschule Aachen)
Bertram Stier (Rheinisch Westfälische Technische Hochschule Aachen)
Stefanie Reese (Rheinisch Westfälische Technische Hochschule Aachen)

EFFECTS OF THE CURE PRESSURE ON INTERLAMINAR SHEAR STRENGTH OF CFRP/STEEL HYBRID LAMINATE CURED BY HOT PRESSING FOR A SHORT TIME

ICCM19 cxvii
Oral Presentation (Continued)

Wen-xue Wang (Kyushu University)
Terutake Matsubara (Kyushu University)
Yoshihiro Takao (Kumamoto Institute of Technology)
Kenzo Yasuda (NHK SPRING Co. LTD.)
Ryousuke Hayashi

THE EFFECTS OF STRUCTURAL INTEGRATION AND MECHANICAL DEFORMATION ON THE ELECTRO-MECHANICAL PERFORMANCE OF STRUCTURAL BATTERIES
Salah M Shalouf (Royal Melbourne Institute of Technology)

THERMAL STABILITY OF CFRP MIRRORS FOR SPACE TELESCOPES UNDER THERMAL CYCLE TEST
Tomohiro Kamiya (Japan Aerospace Exploration Agency)
Shin Utsunomiya (Japan Aerospace Exploration Agency)
Ryuzo Shimizu (Japan Aerospace Exploration Agency)

TENSILE, COMPRESSIVE AND SHEAR RESIDUAL STRENGTHS OF COMPOSITE STRUCTURES SUBJECTED TO BALLISTIC IMPACT WITH DIFFERENT VELOCITIES
John J Wang (Australian Government Defence Science and Technology Organisation)

NEW DEVELOPMENTS IN ONSET THEORY FOR ONSET OF RESIN FAILURE IN FIBRE REINFORCED COMPOSITES
Shen hin Lim (University of New South Wales)
Donald Wainwright Kelly (University of New South Wales)
Garth Morgan Kendall Pearce (University of New South Wales)
B. gangadhara Prusty (University of New South Wales)
Alan Crosky (University of New South Wales)

Compressive strength and damage mechanisms in stitched carbon/epoxy composites
Arief Yudhanto (Tokyo Metropolitan University)

LONG-TERM EXPOSURE OF POLYCYANATE COMPOSITES TO HIGH TEMPERATURE ATMOSPHERE
Yoshiyuki Kobayashi (Tokyo Metropolitan University)
Satoshi Kobayashi (Tokyo Metropolitan University)
STIFF AND DUCTILE NANOCOMPOSITES OF EPOXY REINFORCED WITH CELLULOSE NANOFIBRILS
Mohd Farhan Ansari (Royal Institute of Technology)
Sylvain Galland (Royal Institute of Technology)
Patrik Sven Fernberg (Swerea SICOMP)
Lars A. Berglund (Royal Institute of Technology)

Mechanical Reliability of Inorganic Thin Film Photovoltaics Integrated with Composite Laminates
Dimitrios Antartis (University of Illinois at Urbana-Champaign)
Ioannis Chasiotis (University of Illinois at Urbana-Champaign)

EFFECT OF FOAM CRUSHING IN DOUBLE-CURVATURE SANDWICH PANELS SUBJECTED TO BLAST
Michelle Stephanie Hoo fatt (University of Akron)
Dushyanth Sirivolu (University of Akron)

MULTI-SCALE ANALYSIS OF EFFECTS OF CONSTITUENT PROPERTIES ON OPEN-HOLE TENSION PERFORMANCE OF COMPOSITE LAMINATES
Xing Li (Beijing University of Aeronautics and Astronautics)
Zhidong Guan (Beijing University of Aeronautics and Astronautics)
Bin Xue (Beijing University of Aeronautics and Astronautics)
Lu Liu (Beijing University of Aeronautics and Astronautics)
Wei He (Beijing University of Aeronautics and Astronautics)
Junwu Mu (Beijing University of Aeronautics and Astronautics)

THE MUTUAL EFFECTS OF SHEAR AND TRANSVERSE DAMAGE IN POLYMERIC COMPOSITES
Lloyd Smith (Washington State University)
Mohammedmahdi Salavatian (Washington State University)

Effect of fibre treatments on water absorption and tensile properties of flax/tannin composites
James Njuguna (Cranfield University)
Jinchun Zhu (Cranfield University)
Oral Presentation (Continued)

PREPREG STYLE FABRICATION OF ALL-CELLULOSE COMPOSITES 5626
Jeremias Schuermann (University of Canterbury)
Tim Huber (University of Guelph)
Mark P. Staiger (University of Canterbury)

BONDING OF CFRP PRIMARY AEROSPACE STRUCTURES: OVERVIEW ON THE TECHNOLOGY STATUS IN THE CONTEXT OF THE CERTIFICATION BOUNDARY CONDITIONS ADDRESSING NEEDS FOR DEVELOPMENT 5635
Thomas Kruse (Airbus Operations GmbH - Germany)

PREDICTING FATIGUE DAMAGE DEVELOPMENT FOR BRAIDED CARBON FIBER POLYMER MATRIX COMPOSITES 5644
John Montesano (Ryerson University)
Zouheir Fawaz (Ryerson University)
Martin Lévesque (Ecole Polytechnique de Montreal)
Cheung J Poon (Ryerson University)

Actively Cooled Battery Packaging Using Vascular Composites 5654
Stephen John Pety (University of Illinois at Urbana-Champaign)
Nancy R Sottos (University of Illinois at Urbana-Champaign)
Scott R White (University of Illinois at Urbana-Champaign)

Experimental and numerical study of the cure induced deformations in composites produced by vacuum infusion 5664
Antoine Parmentier (Cenaero)
Benoit Wucher (Cenaero)
Philippe Martiny (Cenaero)

MICROSTRUCTURE, MECHANICAL AND TRIBOLOGICAL PROPERTIES OF AUSTENITIC STAINLESS STEEL COMPOSITES REINFORCED WITH TIB2 PARTICLES 5672
Iwona Sulima (Pedagogical University of Krakow)

PROCESSING AND TACTICITY EFFECT ON GLASS TRANSITION TEMPERATURE OF PMMA/GRAPHENE NANO-COMPOSITES. 5680
Oral Presentation (Continued)

Shigeru Aoyama (University of Minnesota - Twin Cities Campus)
Ken-Hsuan Liao (University of Minnesota - Twin Cities Campus)
Christopher W. Macosko (University of Minnesota - Twin Cities Campus)

**BEARING BEHAVIOR OF 3D WOVEN COMPOSITES**
Michael P Mcclain (Albany Engineered Composites)
Nikolay Timoshchuk (Albany Engineered Composites)
Jon Goering (Albany Engineered Composites)
Chris Redman

**STREAMLINED COMPOSITE MODELING WORKFLOWS WITH MULTI-OBJECTIVE OPTIMISATION**
Gerhard Goldbeck (Goldbeck Consulting Ltd)
Danilo Di stefano (ESTECO spa)

**Prediction of the Hole-Size Effect in the Off-Axis Tensile Specimen Using an Intrinsic Flaw**
Johnathan Goodsell (Purdue University)

**Micromechanistic analysis of toughened carbon fibre composite laminate failure by computed tomography**
Gregor Borstnar (University of Southampton)
Daniel J Bull (University of Southampton)
Mark N Mavrogordato (University of Southampton)
Ian Sinclair (University of Southampton)
Simon M Spearing (University of Southampton)

**Ultrasonic Welding of Thermoplastic Composite. Modeling the Heating Phenomena**
Steven Le corre (Universite de Nantes)
Arthur Levy (McGill University)
Irene Fernandez villegas (Delft University of Technology)

**Multiaxially loaded short fibre polyamide: A contribution to non-destructive evaluation of micro cracking and damage evolution**
Karoline Metzkes (BAM Federal Institute for Materials Research and Testing)
Yvonne Hentschel (BAM Federal Institute for Materials Research and Testing)
Oral Presentation (Continued)

Volker Trappe (BAM Federal Institute for Materials Research and Testing)

STACKING SEQUENCE TABLES FOR LAMINATE BLENDING OPTIMIZATION 5734
François-xavier Irisarri (ONERA)
Alexis Lasseigne (ONERA)
François-henri Leroy (ONERA)

Adaptive Composite Panel with Embedded SMA Actuators: Design, Manufacturing and Testing 5745
Simon Lacasse (Ecole de Technologie Superieure)
Charles Simoneau (Ecole de Technologie Superieure)
Patrick Terriault (Ecole de Technologie Superieure)
Vladimir Brailovski (Ecole de Technologie Superieure)

INDENTATION AND PENETRATION LAWS VALIDATED FOR COMPOSITE LAMINATES DIFFERENT IN FIBRES AND MATRIX 5754
Valentina Lopresto (University of Naples Federico II)
Giancarlo Caprino (University of Naples Federico II)
Antonio Langella (University of Naples Federico II)

EDGE IMPACT DAMAGE SCENARIO ON STIFFENED COMPOSITE STRUCTURE 5761
Ostre Benjamin (Institut Superieur de l'aeronautique et de l'espace ISAE)

PERMEABILITY ANALYTICAL MODELING OF 3D INTERLOCK FABRICS 5770
Nicolas Vernet (Ecole Polytechnique de Montreal)
François Trochu (Ecole Polytechnique de Montreal)

3D DIC Measurement of Tubular Braided Composites 5781
Garrett W Melenka (University of Alberta)
David S Nobes (University of Alberta)
Jason P Carey (University of Alberta)

ANALYSIS AND MODELING OF 3D INTERLOCK FABRIC COMPACTION BEHAVIOR 5793
Nicolas Vernet (Ecole Polytechnique de Montreal)
François Trochu (Ecole Polytechnique de Montreal)
Oral Presentation (Continued)

OPTICAL PERMEABILITY MEASUREMENTS OF NCF: INFLUENCE OF MATERIAL PROPERTIES ON THE 2D PREFORM PERMEABILITY
Ralf Schledjewski (Montanuniversitat Leoben)
Harald Grössing (Montanuniversitat Leoben)

THE EFFECT OF FABRIC SCOURING ON FIRE AND MECHANICAL PERFORMANCE OF FLAME RETARDED FLAX/PP AND FLAX/PLA COMPOSITES
Wiwat Pornwannachai (University of Bolton)
Baljinder Kandola (University of Bolton)
Gill Smart (University of Bolton)

METALIZED CARBON FIBERS FOR SOLDERABLE AND WEAR-RESISTANT COMPOSITE MATERIALS
Matthias Nier (Technische Universität Chemnitz-Zwickau)
Toni Böttger (Technische Universität Chemnitz-Zwickau)
Falko Böttger-hiller (Technische Universität Chemnitz-Zwickau)
Daniela Nickel (Technische Universität Chemnitz-Zwickau)
Ingolf Scharf (Technische Universität Chemnitz-Zwickau)
Daisy Nestler (Technische Universität Chemnitz-Zwickau)
Bernhard Wielage (Technische Universität Chemnitz-Zwickau)
Thomas Lampke (Technische Universität Chemnitz-Zwickau)

Numerical Evaluation of Periodic Boundary Condition on Thermo-Mechanical Problem Using Homogenization Method
Muhammad Ridlo erdata Nasution (Tokyo Metropolitan University)
Naoyuki Watanabe (Tokyo Metropolitan University)
Atsushi Kondo (Tokyo Metropolitan University)

NUMERICAL AND EXPERIMENTAL DYNAMIC ANALYSIS FOR A CFRP FORMULA SAE IMPACT ATTENUATOR
Simonetta Boria (University of Camerino)
Jovan Obradovic (Polytechnic Institute of Turin)
Giovanni Belingardi (Polytechnic Institute of Turin)
Susceptorless continuous induction welding of carbon fiber reinforced thermoplastics
Martina Hümbert(Institut fuer Verbundwerkstoffe GmbH)
Peter Mitschang(Institut fuer Verbundwerkstoffe GmbH)

EXPERIMENTAL AND NUMERICAL STUDY OF THE MICRO-MECHANICAL FAILURE IN COMPOSITES
Danial Ashouri vajari(Technical University of Denmark)
Karolina Martyniuk(Technical University of Denmark)
Bent F Sørensen(Technical University of Denmark)
Brian Nyvang Legarth(Technical University of Denmark)

CHALLENGES FOR THE MANUFACTURING OF A LATTICE STRUCTURE FUSELAGE SECTION WITH PREPREG LAY-UP TECHNOLOGY
Jens Mack(Institut fuer Verbundwerkstoffe GmbH)
Peter Mitschang(Institut fuer Verbundwerkstoffe GmbH)

Evaluation of Bearing Damage Behavior in Thin Titanium Films-CFRP Hybrid Laminate
Tomoki Yamada(Tokyo University of Science)
Hayato Nakatani(Osaka City University)
Shinji Ogihara(Tokyo University of Science)

MIXED MODE FRACTURE BEHAVIOR OF EPOXY/NANOCLAY NANOCOMPOSITES
Michele Zappalorto(University of Padua)
Marco Salviato
Marino Quaresimin(University of Padua)

DELAMINATION DETECTION OF ROTORCRAFT FLEX BEAM USING FRACTAL DIMENSIONS
Keshava Kumar s(Indian Institute of Science)
Ranjan Ganguli(Indian Institute of Science)
Dineshkumar Harursampath(Indian Institute of Science)

PLASMA TREATED CARBON NANOTUBE COATINGS ON THE FRACTURE TOUGHNESS OF GLASS PREPREGS.
John Williams(University of Bristol)
Sameer Rahatekar(University of Bristol)
Oral Presentation (Continued)

STOCHASTIC SIMULATION OF COMPOSITES CURE
Tassos Mesogitis (Cranfield University)
Alex Skordos (Cranfield University)
Andrew C Long (University of Nottingham)

MICROSTRUCTURE AND WERE RESISTANCE IN HYBRID ALUMINIUM COMPOSITES WITH SIC WHISKER AND CARBON NANOTUBES
Xuexi Zhang (Harbin Institute of Technology)
Aibin Li (Harbin Institute of Technology)
Lin Geng (Harbin Institute of Technology)

Investigation of Compressive Failure in Ultra-High Molecular Weight Polyethylene (Dyneema®) Fiber Composites
Julia Patton Attwood (University of Cambridge)
Vikram S Deshpande (University of Cambridge)
Norman A Fleck (University of Cambridge)

Forming Parts with Aligned Multi Wall Carbon Nanotubes
Per Johan Hallander (Saab AB)

MECHANICAL BEHAVIOR OF THIN TITANIUM FILMS / CFRP HYBRID LAMINATES CONTAINING TRANSITION REGION
Yuhei Nekoshima (Tokyo University of Science)
Daiki Mitsumune (Tokyo University of Science)
Hayato Nakatani (Osaka City University)
Shinji Ogihara (Tokyo University of Science)

FRAGMENTATION ANALYSIS OF GLASS FIBRES RECOVERED FROM HYDROLYSIS PROCESSES
Yat-tarng Shyng (University of Exeter)
Oana Ghita (University of Exeter)

Preform influence on mechanical behavior of stiffened panels manufactured by Liquid Resin Infusion
Oral Presentation (Continued)

Thomas Bonnemains (Universite de Bretagne Occidentale)
Eric Lolive (Universite de Bretagne Occidentale)
Franck Le poulain (Universite de Bretagne Occidentale)

Testing of sandwich structures with CFRP skins in edgewise compression 5965
Dirk Lukaszewicz (BMW Group)
Sindy Engel (Technische Universitat Bergakademie Freiberg)
Christian Boegle (BMW Group)

EFFECT OF CURRING PARAMETERS ON DISPERSION AND ELECTRICAL CONDUCTIVITY OF EPOXY/CNT COMPOSITES DEFINE BY IMAGE ANALYSIS 5973
Ewelina Ciecierska (Technical University of Warsaw)
Anna Boczkowska (Technical University of Warsaw)
Krzysztof Jan Kurzydlowski (Technical University of Warsaw)

WHAT ARE THE POSSIBLE ORIGINS OF THE NONLINEAR TENSILE BEHAVIOUR OF HEMP FIBRES? 5981
Vincent Placet (FEMTO-ST)
Frederique Trivaudey (FEMTO-ST)
Ousseynou Cisse (FEMTO-ST)
M Lamine Boubakar (FEMTO-ST)

DISPLACEMENT BASED FINITE STRIP ANALYSIS OF A CRACKED LAMINATE WITH APPROPRIATE BOUNDARY CONDITIONS FORMULATION 5989
Farrukh Hafeez (The Petroleum Institute)
Shuguang Li (University of Nottingham)
Fahad Almaskari

Free vibration analysis of laminated composite open cylindrical shells with arbitrary boundary conditions 6000
Tiangui Ye (Harbin Engineering University)
Guoyong Jin (Harbin Engineering University)
Yuehua Chen (Harbin Engineering University)
Hongda Liu (Harbin Engineering University)
Oral Presentation (Continued)

FABRICATION OF AL-TIB2-B4C COMPOSITES BY QUICK SPONTANEOUS INFILTRATION PROCESS
Jung-moo Lee (Korea Institute of Materials Science)
Jingjing Zhang (Shandong University)
Young-hee Cho (Korea Institute of Materials Science)
Su-hyeon Kim (Korea Institute of Materials Science)
Huashun Yu (Shandong University)

INFLUENCE OF MILL GEOMETRY ON CUTTING FORCE AND SURFACE MORPHOLOGY OF MULTIDIRECTIONAL CFRP
Yan Chen (Nanjing University of Aeronautics and Astronautics)
Yucan Fu (Nanjing University of Aeronautics and Astronautics)
Honghua Su (Nanjing University of Aeronautics and Astronautics)
Shengchao Han (Nanjing University of Aeronautics and Astronautics)

HIGH STRAIN RATE OMPRESSIVE BEHAVIOUR OF SELF REINFORCED - POLY(ETHYLENE TEREPTHALATE) COMPOSITE CORRUGATED CORES
Christof Schneider (Royal Institute of Technology)
Sohrab Kazemahvazi (Royal Institute of Technology)
Dan Zenkert (Royal Institute of Technology)
Mark Battley (University of Auckland)

Optimisation of carbon-fiber composite shells for type IV pressure vessels
Clémente Devilliers (Air Liquide - CRCD)
Anthony R. Bunsell (Ecole Nationale Superieure des Mines de Paris)
Alain Thionnet (Ecole Nationale Superieure des Mines de Paris)
Heng-yi Chou (Ecole Nationale Superieure des Mines de Paris)
Sebastien Joannès (Ecole Nationale Superieure des Mines de Paris)

HYPERVELOCITY IMPACT OF SPACE DEBRIS ON MULTIPLE COMPOSITE BUMPERS: EXPERIMENTS & SIMULATIONS USING LS-DYNA
Abrar-ul-haq Khan Baluch (Korea Advanced Institute of Science & Technology)
Yurim Park (Korea Advanced Institute of Science & Technology)
Chun Gon Kim (Korea Advanced Institute of Science & Technology)
Yunho Kim (Korea Advanced Institute of Science & Technology)
A simulation approach for textile composite reinforcements
Thomas Gereke (Technische Universitat Dresden)
Oliver Doebrich (Technische Universitat Dresden)
Matthias Huebner (Technische Universitat Dresden)
Chokri Cherif (Technische Universitat Dresden)

HEALING CARBON FIBER/POLYMER COMPOSITES BY RESISTIVE HEATING
Lifeng Hao (Harbin Institute of Technology)
Chengqin Dai (Harbin Institute of Technology)
Hongtao Zhang (Harbin Institute of Technology)
Rongguo Wang (Harbin Institute of Technology)
Sichuan Li
Xianglong Huang
Fanjun Meng
Zaiwen Lin

Development of fiber tow spreading system and its application for thin fiber reinforced materials
Tohru Morii (Shonan Institute of Technology)
Masaaki Shimaba (Shonan Institute of Technology)
Masahiro Mogi (ITO Yacht Sails LTD)

New Developments in Structure/Property Relationships
Wendy Wenjun Tian (CSIRO)
Buu Dao (CSIRO)
Russell John Varley (CSIRO)

Effect of Water Absorption on Time-temperature Dependent Strength of Unidirectional CFRP
Yasushi Miyano (Kanazawa Institute of Technology)
Syuhei Hara (Kanazawa Institute of Technology)
Masayuki Nakada (Kanazawa Institute of Technology)

FIBER-MATRIX INTERFACE REINFORCEMENT USING ATOMIC LAYER DEPOSITION
Sari Katz (Soreq NRC)
Oral Presentation (Continued)

Yacov Carmiel (Bar-Ilan University)
Irina Gouzman (Soreq NRC)
Chaim Sukenik
Daniel Wagner
Eitan Grossman (Soreq NRC)

Shock focusing in water in a convergent carbon fiber composite structure 6102
Chuanxi Wang (University of Southern California)
Veronica Eliasson (University of Southern California)

TOWARD COMPUTATIONAL SMART MATERIALS WITH CONTROLLABLE STIFFNESS 6110
Michael A McEvoy (University of Colorado at Boulder)
Nicholas D. Farrow (University of Colorado at Boulder)
Nikolaus Correll (University of Colorado at Boulder)

APPLICATION OF BIOMECHANICAL PRINCIPLES FOR DESIGN OF COMPOSITE STRUCTURES 6121
Andrey Malakhov (Institute of Machines Science)
Alexander Polilov (Institute of Machines Science)

A Simulation-Based Method of Permeability Prediction for RTM Process Simulation 6122
Christoph Hahn (Technische Universitat Munchen)
Christophe Binetruy (Ecole Centrale de Nantes)
Roland Hinterhoelzl (Technische Universitat Munchen)

MORPHING OF BISTABLE COMPOSITE LAMINATES 6134
Samer Tawfik (Georgia Institute of Technology)
Erian Armanios (University of Texas at Arlington)
Stefan Dancila (University of Texas at Arlington)

Modelling of 3D woven composites with realistic unit cell geometry 6139
Steven Daniel Green (University of Bristol)
Mikhail Matveev (University of Nottingham)
Andrew C Long (University of Nottingham)
Stephen Richard Hallett (University of Bristol)
### EFFECT OF EXTREME TEMPERATURE CYCLES ON DAMAGE IN COMPOSITE LAMINATES
Marie-laure Dano (Laval University)  
Francis Martin (Agence spatiale canadienne Canadian Space Agency)  
Marie-josée Potvin (Agence spatiale canadienne Canadian Space Agency)  
Mathilde Jean-st-laurent (Laval University)

### BENDING TEST OF THERMOPLASTIC COMPOSITE CONE
Farjad Shadmehri (Concordia University)  
Suong Hoa (Concordia University)  
Mehdi Hojjati (Concordia University)

### DEVELOPMENT OF CYCLIC DAMAGE IN CARBON EPOXY COMPOSITES UNDER VARIABLE LOADING CONDITIONS
Alan Plumtree (University of Waterloo)  
Jan Dahl (University of Waterloo)

### STUDY ON CHEMICAL TREATMENT OF CELLULOSE FIBER TO IMPROVE HEAT RESISTANCE AND THE MECHANICAL PROPERTY OF COMPOSITE MATERIALS USING TREATED FIBER
Si Ha (Kyoto Institute of Technology)  
Teruo Kimura (Kyoto Institute of Technology)  
Haruhiro Ino (Kyoto Institute of Technology)  
Akihiro Suzuoka

### Multilayer ballistic systems based on dry fabrics
Francisca Martínez hergueta (IMDEA Materials)  
Carlos Daniel González (IMDEA Materials)  
Javier Llorca (IMDEA Materials)  
Tamara Blanco varela  
Jose J Martínez

### DEVELOPMENT OF SWCNT/AL2O3 COMPOSITES FOR BALLISTIC APPLICATIONS
Shuqiong Lin (National Research Council Canada)  
Benoit Simard (National Research Council Canada)  
Dave Morphy (National Research Council Canada)
Oral Presentation (Continued)

INVESTIGATION OF INFLUENCING PARAMETERS WITH RESPECT TO FILLING TIME IN VIBRATION ASSISTED RTM PROCESSES
Reinhold Meier (Technische Universitat Munchen)
Julian Heim (Technische Universitat Munchen)
Swen Zaremba (Technische Universitat Munchen)
Klaus Drechsler (Technische Universitat Munchen)

SMP Filled Honeycomb as a Reconfigurable Skin: Model and Experimental Validation
Richard V Beblo (University of Dayton)
John P Puttmann (University of Dayton)
Nathaniel E Deleon (Air Force Research Laboratory)
James J Joo (Air Force Research Laboratory)
Gregory W Reich (Air Force Research Laboratory)

Enhanced mechanical and electrical properties of in-situ cross-linked buckypaper
Jianwei Zhang (National University of Defense Technology)
Dazhi Jiang (National University of Defense Technology)
Hua-xin Peng (University of Bristol)

MESO-MECHANICAL INVESTIGATION OF WOVEN CARBON FIBER REINFORCED PLASTIC
Bertram Stier (Rheinisch Westfälische Technische Hochschule Aachen)
Jaan Willem Simon (Rheinisch Westfälische Technische Hochschule Aachen)
Stefanie Reese (Rheinisch Westfälische Technische Hochschule Aachen)

INFLUENCE OF FIBRE ARCHITECTURE ON IMPACT AND FATIGUE BEHAVIOUR OF FLAX FIBRE-BASED COMPOSITES
Farida Bensadoun (Katholieke Universiteit Leuven)
Delphine Depuydt (Katholieke Universiteit Leuven)
Joris Baets (Katholieke Universiteit Leuven)
Oral Presentation (Continued)

Aart Willem Van vuuure (Katholieke Universiteit Leuven)
Ignaas Verpoest (Katholieke Universiteit Leuven)

LASER WELDING MODELLING FOR THERMOPLASTIC COMPOSITE AND DEVELOPMENT OF AN ADAPTED MATERIAL CHARACTERIZATION METHOD
Mylene Deleglise (Ecole des Mines de Douai)
Benoit Cosson (Ecole des Mines de Douai)

Innovative glass-ceramic matrix composites: processing and characterization
Anais Farrugia (Institut Clément Ader)
Gilles Dusserre (Institut Clément Ader)
Thierry Cutard (Institut Clément Ader)
Magali Rollin
Stephanie Fouquet (Herakles)

ENVIRONMENTAL-FRIENDLY FOOTBRIDGE MADE OF CFRP, GFRP AND TIMBER
Urs Otto Meier (Empa, Swiss Federal Laboratories for Materials Science & Technology)

EVALUATION OF PROGRESS OF PHYSICAL AGING ON VISCOELASTIC BEHAVIOR OF EPOXY RESIN
Masayuki Nakada (Kanazawa Institute of Technology)
Kosuke Hosaki (Kanazawa Institute of Technology)
Yasushi Miyano (Kanazawa Institute of Technology)

THE EFFECT OF DECONSOLIDATION ON INTERLAMINAR SHEAR STRENGTH FOR THERMOPLASTIC COMPOSITES
Markus Brzeski (Institut fur Verbundwerkstoffe GmbH)
Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

DURABILITY AND DEGRADATION OF POLYMER MATRIX COMPOSITES AT ELEVATED TEMPERATURE AND PRESSURE FOR WAVE AND TIDAL ENERGY DEVICES
Zhongyi Yi Zhang (University of Portsmouth)

EXPERIMENTAL AND NUMERIC MULTISCALE ANALYSES OF FAILURE MECHANISMS ON PULTRUDED POLYMERIC COMPOSITE MATERIAL
Oral Presentation (Continued)

Henri-alexandre Cayzac (Ecole Nationale Superieure des Mines de Paris)
Sébastien Joannès (Ecole Nationale Superieure des Mines de Paris)
Lucien Laiarinandrasana (Ecole Nationale Superieure des Mines de Paris)

MICROSTRUCTURE AND PROPERTIES OF TiB2–TiAl COMPOSITES SHEETS PREPARED BY FOIL METALLURGY

Xiping Cui (Harbin Institute of Technology)

Electrospun Nanofibrous Composites to Control Drug Release and Interaction between Hydrophilic drug and Hydrophobic Blended Polymer Matrix

Yu Dong (Curtin University of Technology)
Hazim J. Haroosh (Curtin University of Technology)

PROBABILISTIC MODELLING OF THE PROCESS INDUCED VARIATIONS IN PULTRUSION

Ismet Baran (Technical University of Denmark)
Jesper Henri Hattel (Technical University of Denmark)
Cem C Tutum (Technical University of Denmark)

CORELLATIONS OF DAMAGE MECHANISMS AND MATERIAL MICRO-STRUCTURE IN TENSILE LOADED HOOP STRUCTURES

Anna E Scott (University of Southampton)
Ian Sinclair (University of Southampton)
Simon M Spearing (University of Southampton)
Mark N Mavrogordato (University of Southampton)
Warren Hepples

THE IMPACT OF PROCESS PARAMETERS ON THE RESIDUAL STRESSES AND DISTORTIONS IN PULTRUSION

Ismet Baran (Technical University of Denmark)
Jesper Henri Hattel (Technical University of Denmark)
Cem C Tutum (Technical University of Denmark)

MECHANICAL PROPERTIES OF MULTI-WALLED CARBON NANOTUBE BUCKYPAPER BY POLYVINYLPYRROLIDONE ADHESIVES

Qianli Liu (Beihang University)
Oral Presentation (Continued)

Min Li (Beihang University)
Jing Guo (Beihang University)
Yizhuo Gu (Beihang University)
Yanxia Li (Beijing University of Aeronautics and Astronautics)
Zuoguang Zhang (Beijing University of Aeronautics and Astronautics)

ON SLIDING FRICTION OF PEEL-PLY TEXTURED EPOXY RESIN SURFACES CONTAMINATED BY AIRCRAFT OPERATING FLUIDS
Lennart Weiß (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))
Thilo Glaser (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))
Christian Hühne (Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

Impact of the Manufacturing Process of Locally Load-related Reinforced Composites on the Interface Behavior
Rene Holschuh (Institut fuer Verbundwerkstoffe GmbH)
Jovana Dzalto (Institut fuer Verbundwerkstoffe GmbH)
Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

NATURAL FIBER REINFORCED BIOCOMPOSITES: EFFECT OF FIBER TREATMENTS BY ULTRASOUND
Mohammad Dalour Beg (Universiti Malaysia Pahang)

Micromechanical Failure Analysis of Unidirectional Fiber-Reinforced Composites under In-plane and Transverse Shear
Lei Yang (Beihang University)
Ying Yan (Beijing University of Aeronautics and Astronautics)
Zhiguo Ran (Beihang University)

EXPERIMENTAL AND NUMERICAL STUDIES ON DAMAGE BEHAVIOR OF NYLON 6/CLAY NANOCOMPOSITES
Shaoning Song (National University of Singapore)
Yu Chen (National University of Singapore)
Zhoucheng Su (National University of Singapore)
Chenggen Quan (National University of Singapore)
Vincent Bc Tan (National University of Singapore)
A New Hierarchical Reinforcement: Grafting Graphene Oxide onto Carbon Fiber
Qingyu Peng(Harbin Institute of Technology)

Highly Twisted Double-Helix Carbon Nanotube Yarns
Yuanyuan Shang(Harbin Institute of Technology)

IMPROVED ELECTRICAL CONDUCTIVITY OF CARBON NANOTUBE MAT COMPOSITE
PREPARED BY IN-SITU POLYMERIZATION
Seong yun Kim(Korea Institute of Science and Technology)

Refined Models on the Wrinkling of Sandwich Panels under Biaxial Loading
Hsin-piao Chen(California State University, Long Beach)
Hsun Chen(California State University, Long Beach)

BIRD IMPACT STUDY OF A PRELOADED COMPOSITE WIND TURBINE BLADE
Norimichi Nanami(Texas A&M University)
Ozden O Ochoa(Texas A&M University)

DMA AS A METHOD OF MEASURING TOUGHNESS IN INORGANIC POLYMER MATRIX
COMPOSITES
Donald W Radford(Colorado State University)

MICROSTRUCTURE AND MECHANICAL BEHAVIOR OF 6061 AL ALLOY REINFORCED WITH
SiCp NANOPARTICLES PROCESSED BY EXTRUSION AND COLD ROLLING
Xia Jiang(University of Oxford)
Alexander Knowles(University of Oxford)
Marina Galano(University of Oxford)
Fernando Audebert(University of Buenos Aires)

COMPLIANT MULTIFUNCTIONAL WING STRUCTURES FOR HARVESTING SOLAR ENERGY
Hugh Alan Bruck(University of Maryland at College Park)

MIXED MODE THROUGH THICKNESS FRACTURE OF POLYMER MATRIX COMPOSITE
Jamal Jamali(University of Western Ontario)
On the anisotropic attenuation behavior of the flexure mode of carbon fiber composites
Brian Michael Burks(National Institute of Standards and Technology(NIST))
Marvin A Hamstad(University of Denver)

Influence of glass transition temperature of thermoplastic and thermoset laminates on their fatigue behavior
William Albouy(INSA Rouen)
Benoit Vieille(INSA Rouen)
Lakhdar Taleb(INSA Rouen)

Advanced finite element vibration analysis of variable-thickness variable-width laminated composite beams
Pooya Salajegheh(Concordia University)
Rajamohan Ganesan(Concordia University)

Effect of Humidity on Electrical Conductivity of Carbon Nanotube-Modified Epoxy
Behnam Ashrafi(National Research Council Canada)

SIMULATIVE DESIGN OF OVERBRAIDED PRESSURE VESSEL FOR HYDROGEN STORAGE
Michael Lengersdorf(Rheinisch Westfälische Technische Hochschule Aachen)
Thomas Gries(Rheinisch Westfälische Technische Hochschule Aachen)
Jörg Bernhard Multhoff(ISATEC GmbH)
Markus Linke(Fachhochschule Hamburg)

In-Situ Tensile Fibre Failure Analysis by Synchrotron Radiation Computed Tomography
Hannah Morton(University of Southampton)
Philippa Reed(University of Southampton)
Ian Sinclair(University of Southampton)
Simon M Spearing(University of Southampton)
Anna E Scott(University of Southampton)

Tensile Properties of Carbon and Glass T-joints as a Structural Element of Wind Turbine Blade
Amirhossein Hajdaei(University of Manchester Institute of Science and Technology)
Oral Presentation (Continued)

Paul Jonathan Hogg (Royal Holloway and Bedford New College)
Constantinos Soutis (University of Manchester)

Time and temperature influence on the failure of textile composites  
Amine El mourid (Ecole Polytechnique de Montreal)
Martin Lévesque (Ecole Polytechnique de Montreal)
Rajamohan Ganesan (Concordia University)

ELABORATION AND CHARACTERIZATION OF BIOCOMPOSITES FROM RICE HUSK, WHEAT HUSK AND PLA  
Thao Tran (Ecole des Mines d’Alès)
Jean-charles Benezet (Ecole Nationale Superieure des Mines d’Alés)
Anne Bergeret (Ecole des Mines d’Alès)

Graphene based poly(vinyl alcohol) nanocomposites: effect of humidity content  
Alessandro Pegoretti (University of Trento)

INFLUENCE OF THE DIAMOND-CERAMIC COMPOSITE THERMAL CONDUCTIVITY ON CUTTING PROPERTIES  
Lucyna Renata Jaworska (Institute of Advanced Manufacturing Technology)
Wojciech Zebala (Cracow University of Technology)
Piotr Klimczyk (The Institute of Advanced Manufacturing Technology)
Marcin Henryk Rozmus (The Institute of Advanced Manufacturing Technology)
Pawel Rutkowski (AGH University of Science and Technology)

Colloidal ionic self-assembly between anionic native cellulose nanofibrils and cationic block copolymer micelles into biomimetic nanocomposites  
Miao Wang (Aalto University)
Anna Olszewska (Aalto University)
Andreas Walther (Aachen University)
Jani-markus Malho
Felix h. Schacher (Friedrich-Schiller Universitat Jena)
Janne Ruokolainen (Aalto University)
Mikael Ankerfors
Janne Laine (Aalto University)
Lars A. Berglund (Royal Institute of Technology)
Monika Österberg (Aalto University)
Olli Ikkala (Aalto University)

NUMERICAL MODELLING OF PERFORATION RESISTANCE OF FOAM-BASED SANDWICH PANELS
Jin Zhou (University of Liverpool)
Wesley James Cantwell (Khalifa University of Science Technology and Research)
Zhongwei Guan (University of Liverpool)

Blast Parameter Effects in Full Scale Air Blast on Sandwich Composite Panels
John Philip Dear (Imperial College of Science, Technology and Medicine, University of London)

Preform compaction and deformation during through-the-thickness impregnation
David Becker (Institut fuer Verbundwerkstoffe GmbH)
Markus Brzeski (Institut fuer Verbundwerkstoffe GmbH)
Dominik Linster (Request Pending)
Peter Mitschang (Institut fuer Verbundwerkstoffe GmbH)

NUMERICAL MODELLING OF GRADED FOAM BASED SANDWICH STRUCTURES SUBJECTED TO IMPACT
Jin Zhou (University of Liverpool)
Zhongwei Guan (University of Liverpool)
Wesley J Cantwell

Snap-through Instability, Delamination and Damage Progression in Air and Water Backed Curved Sandwich Structures
Romesh Batra (Virginia Polytechnic Institute and State University (Virginia Tech))
Jian Xiao (University of Michigan - Ann Arbor)

COMPRESSION MOULDING OF COMPLEX PARTS FOR THE AEROSPACE WITH DISCONTINUOUS NOVEL AND RECYCLED THERMOPLASTIC COMPOSITE MATERIALS
Nicolas Eguemann (Cross Composite AG)

UNBALANCED AND SYMMETRIC LAMINATES: NEW PERSPECTIVES ON A LESS WELL-KNOWN DESIGN RULE.
Oral Presentation (Continued)

Christopher B. York (University of Glasgow)

FAILURE OF SINGLY CURVED SANDWICH PANELS SUBJECTED TO BLAST LOADING 6639
Chris Von klemperer (University of Cape Town)
Genevieve Langdon (University of Cape Town)
Gerald N Nurick (University of Cape Town)
Gregory Sinclair (University of Cape Town)

Synthesis, microstructure and mechanical properties of Nb-based composites containing carbide and boride ceramic phases
Xinjiang Zhang (Harbin Institute of Technology)

MODELLING OF THE DELAMINATION OF LAMINATED GLASS RESISTING BLAST LOADING 6651
Paolo Del linz (Imperial College of Science, Technology and Medicine, University of London)
John Philip Dear (Imperial College of Science, Technology and Medicine, University of London)

STRUCTURAL HEALTH MONITORING IN COMPOSITE STRUCTURES USING EMBEDDED WIRE SENSORS 6662
Pierre Mertiny (University of Alberta)
Martin Ocker (University of Alberta)
Christian Hansen (Universitat Hannover)
Cagri Ayranci (University of Alberta)

INFLUENCE OF DEFORMATION DEGREE ON THE MICROSTRUCTURE OF TITANIUM MATRIX COMPOSITES 6667
Weijie Lu (Shanghai Jiao Tong University)
Xianglong Guo (Shanghai Jiaotong University)

Interfacial adhesion and mechanical behaviour of natural fibre composites: effect of surface energy and physical adhesion 6670
Carlos Anibal Fuentes (Katholieke Universiteit Leuven)
Le Quoc Tran (Katholieke Universiteit Leuven)
Christine Dupont-gillain (Universite Catholique de Louvain)
Aart Willem Van vuure (Katholieke Universiteit Leuven)
Ignaas Verpoest (Katholieke Universiteit Leuven)
EFFECT OF FIBER LENGTH, TYPE, AND VOLUME FRACTION ON FLEXURAL STRENGTH OF DISCONTINUOUS CARBON/CARBON COMPOSITES
Daniel Heim(Technische Universitat Munchen)
Alexander Matschinski(Technische Universitat Munchen)
Thomas Kandler(Technische Universitat Munchen)
Swen Zaremba(Technische Universitat Munchen)
Christian Klotz(SGL CARBON GmbH)
Klaus Drechsler(Technische Universitat Munchen)

COMPARISON OF MECHANICAL PROPERTIES IN WELDING JOINT METHODS OF CF/PP
Yasutomo Nomura(The University of Tokyo)
Kiyoshi Uzawa(Kanazawa Institute of Technology)
Hideaki Murayama(The University of Tokyo)
Isamu Ohsawa(The University of Tokyo)
Jun Takahashi(The University of Tokyo)

INVESTIGATION ABOUT FRACTURE MODE AND STRENGTH IN CURVED SECTION OF CARBON FIBER REINFORCED POLYPROPYLENE
Yi Wan(The University of Tokyo)
Takeshi Goto(The University of Tokyo)
Tsuyoshi Matsuo(The University of Tokyo)
Jun Takahashi(The University of Tokyo)
Isamu Ohsawa(The University of Tokyo)

Mechanical Characteristic and Strength Prediction of Filled Hole Composite Laminate under Compression Loading
Xiao Jing Zhang(Shanghai Jiaotong University)
Zhuyu Jin(Shanghai Jiao Tong University)
Cheng Chen(Shanghai Jiao Tong University)
Hai Wang(Shanghai Jiao Tong University)

ELASTIC MODULUS ESTIMATION OF CHOPPED CARBON FIBER TAPE REINFORCED THERMOPLASTICS USING THE MONTE CARLO SIMULATION
Yu Sato(The University of Tokyo)
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>chemical grafting CNT onto CF surface by electrophoresis method</td>
<td>Yuxin Li (Harbin Institute of Technology)</td>
</tr>
<tr>
<td>ASYMPTOTIC HOMOGENIZATION MODELING OF MAGNETO-ELECTRIC SMART</td>
<td>Alexander L. Kalamkarov (Dalhousie University)</td>
</tr>
<tr>
<td>MODELING AND PROGRESSIVE DAMAGE ANALYSIS OF FRP LAMINATES WITH</td>
<td>Yile Hu (Shanghai Jiao Tong University)</td>
</tr>
<tr>
<td>PERIDYNAMIC THEORY</td>
<td>Yin Yu (Shanghai Jiao Tong University)</td>
</tr>
<tr>
<td></td>
<td>Hai Wang (Shanghai Jiao Tong University)</td>
</tr>
<tr>
<td>CONTRIBUTIONS TO THE PROCESS MODELLING OF RESIN INFUSION UNDER FLEXIBLE TOOLING (RIFT) MANUFACTURING FOR COMPOSITE AEROSTRUCTURES</td>
<td>Robert Samuel Pierce (Monash University)</td>
</tr>
<tr>
<td></td>
<td>Brian George Falzon (Queen's University Belfast)</td>
</tr>
<tr>
<td></td>
<td>Mark Thompson (Monash University)</td>
</tr>
<tr>
<td></td>
<td>Romain Boman (Universite de Liege)</td>
</tr>
<tr>
<td>High temperature tensile properties of in situ TiBw/Ti60 composites with novel network microstructure</td>
<td>Lujun Huang (Harbin Institute of Technology)</td>
</tr>
<tr>
<td></td>
<td>Xudong Rong (Harbin Institute of Technology)</td>
</tr>
<tr>
<td></td>
<td>Lin Geng (Harbin Institute of Technology)</td>
</tr>
<tr>
<td></td>
<td>Fuyao Yang (Harbin Institute of Technology)</td>
</tr>
<tr>
<td>Mechanical Properties of Woven Fiberglass Composite Laminate Interleavened with Glass Nanofibers</td>
<td>Ajit D. Kelkar (North Carolina A&amp;T State University)</td>
</tr>
</tbody>
</table>
HYBRID WOVEN GLASS FIBRE FABRIC-CARBON NANOTUBE-EPOXY COMPOSITES 6779
Tina Lekakou(University of Surrey)

WETTABILITY EVALUATION OF FLAX AND PAPER FIBERS USING THE SESSILE DROP TECHNIQUE. 6785
Gilbert Lebrun(University of Quebec at Trois-Rivieres)

PROPERTIES OF PHENYLETHYNYL IMIDE COMPOSITES FABRICATED VIA VARTM 6795
Roberto J. Cano(NASA)
Sayata Ghose(The Boeing Company)

MULTIVARIABLE OPTIMISATION OF FIBRE REINFORCED HONEYCOMB SANDWICH PANELS 6804
Sanjeev Rao(Centre for Advanced Composite Materials)
Jeremy Chen(University of Auckland)
Debes Bhattacharyya(University of Auckland)

CORRELATION OF TRANSDUCER FREQUENCY AND SIGNAL/NOISE RATIO OF THIN WALLED FILAMENT WOUND CFRP-TUBES INSPECTED BY ULTRASONICS 6813
Jens Schuster(Fachhochschule Kaiserslautern)

Thermal-Mechanical Behavior of Actively Cooled Vascularized Composites 6821
Anthony M Coppola(University of Illinois at Urbana-Champaign)
Nancy R Sottos(University of Illinois at Urbana-Champaign)
Scott R White(University of Illinois at Urbana-Champaign)

EFFECTS OF COMBINED ENVIRONMENTAL AGENTS ON PULTRUDED GFRP COMPOSITES FOR BUILDING CONSTRUCTIONS 6829
Valter Carvelli(Polytechnic Institute of Milan)
Guglielmo Carra(Polytechnic Institute of Milan)

DRAPEABILITY OF GLASS AND STEEL FIBRES KNITTED FABRICS 6837
Oral Presentation (Continued)

Marcin Barburski (Technical University of Lodz)
Stepan V. Lomov (Katholieke Universiteit Leuven)
Kristof Vanclooster (Toray Industries Inc.)
Ignaas Verpoest (Katholieke Universiteit Leuven)

HYGROTHERMALLY STABLE ASYMMETRIC COMPOSITE LAMINATES WITH OPTIMAL COUPLING OF DEFORMATION MODES
Robert Haynes (US Army Research Laboratory)
Erian Armanios (University of Texas at Arlington)

PERFORMANCE OF LITHIUM-INTERCALATED CARBON FIBRES FOR STRUCTURAL ELECTRODE APPLICATIONS
Eric Jacques (Royal Institute of Technology)
Dan Zenkert (Royal Institute of Technology)
Maria Hellsqvist Kjell (Royal Institute of Technology)
Göran Lindberg (Royal Institute of Technology)
Mårten Behm (Royal Institute of Technology)

Thermal and Viscoelastic Properties Of SC15 Epoxy Resin Composites Modified With Montmorillonite Nanoclay Exposed to UV Radiation
Alfred Tcherbi-narteh (Tuskegee University)

ANALYTICAL AND NUMERICAL MODELING FOR 3D SMART ORTHOTROPIC GRID-REINFORCED COMPOSITE STRUCTURES
Edris Hassan (Dalhousie University)

NUMERICAL DESIGN OPTIMISATION OF A COMPOSITE REACTION LINK
Yang Yang (The Welding Institute (TWI))
Clement Schuhler (The Welding Institute (TWI))
Chris M Worrall (The Welding Institute (TWI))

DAMAGE CHARACTERIZATION OF A 3D WOVEN SIC/SIC CMC MATERIALS UNDER LOADING
Edith Justine Grippon (Institut de Mecanique et d'Ingenierie de Bordeaux)
Stéphane Baste (Universite Bordeaux I)
Eric Martin (Universite Bordeaux I)
Offset Failure in Filled Hole Compression Tests
Bruno Castanié (Institut Clément Ader)

Accounting for Manufacturability Constraints in the Optimisation of Composite Structures
Vinay Madhavan (Cenaero)
Philippe Martiny (Cenaero)

Anisotropic Acid Penetration in Triangular Bar Reinforced Epoxy Composite
Bryan Buning Pajarito (University of the Philippines Diliman)
Masatoshi Kubouchi (Tokyo Institute of Technology)

Enhanced carbon nanotube fiber and film by a high toughness epoxy
Yanan Liu (Beihang University)
Yizhuo Gu (Beihang University)
Min Li (Beihang University)
Kun Wang (Beijing University of Aeronautics and Astronautics)
Dongmei Hu (Chinese Academy of Sciences)
Qingwen Li (Chinese Academy of Sciences)
Zuoguang Zhang (Beijing University of Aeronautics and Astronautics)

Manufacturing of a multifunctional composite part for use in automotive applications
Tony Carlson (Swerea SICOMP)
Leif Erik Asp (Swerea SICOMP)
Viktor Ekermo
Per-ivar Sellergren

Fracture Behavior of Carbon Fiber Reinforced Polypropylene under Artificial Lightning Strike
Shinichiro Yamashita (The University of Tokyo)
Isamu Ohsawa (The University of Tokyo)
Akiyasu Morita (The University of Tokyo)
Jun Takahashi (The University of Tokyo)
Oral Presentation (Continued)

FUNCTIONAL COMPOSITES OF EPOXY / SILVER-FILLER USING SELF-ASSEMBLY PHASE STRUCTURES
Hajime Kishi (University of Hyogo)

MOVING TO COMPOSITE FUSELAGE DESIGN
Francisco Kioshi Arakaki (EMBRAER S.A.)

TEMPERATURE AND RATE DEPENDENT MULTI-SCALE SHEAR MODELLING OF MOLTEN THERMOPLASTIC ADVANCED COMPOSITES
Philip Harrison (University of Glasgow)
Nuno Curado-correia (INEGI - Institute of Mechanical Engineering and Industrial Management)

IN-SITU SYNTHESIZED MAGNESIUM MATRIX COMPOSITES
Tongxiang Fan (Shanghai Jiao Tong University)

STUDY OF FLUID-STRUCTURE INTERACTION ON COMPOSITE STRUCTURAL VIBRATION
Young W Kwon (Naval Postgraduate School)

MODELING THE RESPONSE OF DUAL CROSS-LINKED NANOPARTICLE NETWORKS TO MECHANICAL DEFORMATION
Anna C. Balazs (University of Pittsburgh)
Balaji V. s. Iyer (University of Pittsburgh)
Victor V. Yashin (University of Pittsburgh)

Quantitative Assessment Barely Visible Indentation Damage (BVID) on CF/EP Sandwich Composites Using Guided Wave Signals
Lin Ye (University of Sydney)
Samir Mustapha
Xingjian Dong

NUMERICAL AND EXPERIMENTAL INVESTIGATIONS OF CONTINUOUS FIBRE REINFORCEMENTS AND THERMOPLASTIC RESIN (CFRTP) FORMING
Peng Wang (Ecole Nationale Superieure des Arts et Industries Textiles)
Nahiene Hamila (Institut National des Sciences Appliquees de Lyon)
Oral Presentation (Continued)

Philippe Boisse (Institut National des Sciences Appliquees de Lyon)

Carbon Nanotube Reinforced Fiber/Epoxy Multi-scale Hybrid Composites via Electrophoretic Deposition: Multifunctional Properties, Processing, Characterization and Modeling 7013
Qi An (University of Delaware)
Andrew N Rider (Australian Government Defence Science and Technology Organisation)
Erik T Thostenson (University of Delaware)

A MULTI-SCALE VISCOELASTIC COHESIVE LAYER MODEL FOR PREDICTING DELAMINATION IN HIGH TEMPERATURE POLYMER MATRIX COMPOSITES 7023
Samit Roy (University of Alabama - Tuscaloosa)

A design Strategy for Bi-stable Unsymmetric Composite Laminates Induced by Vibration 7033
Atsuhiko Senba (Nagoya University)
Tadashige Ikeda (Nagoya University)

MODELING OF IN-PLANE VOID TRANSPORT DURING COMPOSITES PROCESSING 7042
John Joseph Gangloff jr. (University of Delaware)
Claire Daniel (Institut superieur de mecanique de Paris - SUPMECA)
Suresh G Advani (University of Delaware)

A Simple Plasticity Model for Predicting Transverse Composite Response and Failure 7050
Khong wui Gan (University of Bristol)
Michael R Wisnom (University of Bristol)
Stephen Richard Hallett (University of Bristol)
Giuliano Allegri (University of Bristol)

MULTI-DISCIPLINARY DESIGN OPTIMIZATION OF SANDWICH CONSTRUCTIONS 7058
Liliane Gilberte Ngahane Nana (Rheinisch Westfälische Technische Hochschule Aachen)
Jörg Feldhusen (Rheinisch Westfälische Technische Hochschule Aachen)
Stephanie Dallmeier (Rheinisch Westfälische Technische Hochschule Aachen)
Benedikt Günther (Rheinisch Westfälische Technische Hochschule Aachen)
Thomas Fieder (Rheinisch Westfälische Technische Hochschule Aachen)

LOW-ENERGY ELECTRON BEAM CURED THERMOSET TAPE PLACEMENT 7060
Oral Presentation (Continued)

Dilmurat Abliz (Technische Universitat Clausthal)
Yugang Duan (Xi'an Jiaotong University)
Xinming Zhao (Xi'an Jiaotong University)
Xiaolong Liu (Xi'an Jiaotong University)
Dichen Li (Xi'an Jiaotong University)

Validation of local stitching simulation for stitched NCF ply stacks 7070
Sylvain Bel (Technische Universitat Munchen)
Alexane Margossian (Eurocopter Deutschland GmbH)
Daniel Leutz (Technische Universitat Munchen)
Uwe Beier (Eurocopter Deutschland GmbH)
Roland Hinterhoelzl (Technische Universitat Munchen)
Klaus Drechsler (Technische Universitat Munchen)

Delamination initiation due to interlaminar tension in fibre reinforced plastics 7078
Jamie Peter Blanchfield (University of Bristol)
Giuliano Allegri (University of Bristol)

Applicability of C-Ply Bi-Angle NCF to Aircraft Parts 7087
Akira Kuraishi (Kawasaki Heavy Industries Ltd.)
Toru Itoh (Kawasaki Heavy Industries Ltd.)
Jyunichi Kimoto (Kawasaki Heavy Industries Ltd.)
Sayaka Ochi (Kawasaki Heavy Industries Ltd.)
Noriyoshi Hirano (Kawasaki Heavy Industries Ltd.)

MODELING TEXTILE REINFORCED CEMENTITIOUS COMPOSITES AND EFFECT OF ELEVATED TEMPERATURES 7098
Johan Blom (Vrije Universiteit Brussel)

Examination of drape-induced defects using computer X-ray tomography 7108
James Stephen Lightfoot (University of Bristol)
Kevin Potter (University of Bristol)
Michael R Wisnom (University of Bristol)

DEVELOPMENT OF AN ON-LINE ANALYSIS METHOD FOR THE THERMOPLASTIC IMPREGNATION PROCESS 7117
Oral Presentation(Continued)

Marcel Christmann(Institut fuer Verbundwerkstoffe GmbH)
Peter Mitschang(Institut fuer Verbundwerkstoffe GmbH)

AN INTEGRATED XFEM-CE APPROACH FOR MODELING MATRIX CRACKS AND DELAMINATION INTERACTIONS IN COMPOSITE LAMINATES WITH ANGLED PLIES
Xiushan Sun(National University of Singapore)
Vincent Bc Tan(National University of Singapore)
Tong earn Tay(National University of Singapore)

DAMAGE CHARACTERIZATION OF A THIN PLATE MADE OF ABS UNDER UNIAXIAL SOLICITATION
Hicham Farid(University of Quebec Abitibi-Temiscamingue)
hassan ezzaidi(University of Quebec at Chicoutimi)
fouad erchiqui(University of Quebec Abitibi-Temiscamingue)
mohamed elghorba(Universite Hassan II - Ain Chock)
hkalid elhad(Universite Hassan II - Ain Chock)
fouad slaoui hasnaoui(University of Quebec Abitibi-Temiscamingue)

VISCOELASTIC SHEAR LAG ANALYSIS OF THE DISCONTINOUS FIBER COMPOSITE
R. byron Pipes(Purdue University)
Nicholas Alan Smith(Purdue University)

DEVELOPMENT AND TESTING OF A HYBRIDE ACTIVE – PASSIVE ACOUSTIC SHM SYSTEM FOR IMPACT DAMAGE DETECTION IN HONEYCOMB AIRCRAFT STRUCTURES
Michael Scheerer(Aerospace & Advanced Composites GmbH)
Daniel Lager(Aerospace & Advanced Composites GmbH)
Firat Goeral(Aerospace & Advanced Composites GmbH)

SYNERGISTIC DAMAGE MECHANICS MODELING OF FAILURE IN MULTIDIRECTIONAL COMPOSITE LAMINATES
Chandra veer Singh(University of Toronto)

Thermal Properties of Carbon Materials Reinforced Aluminum Composites Fabricated by Hot Pressing with Semi-liquid Phase
Hiroki Kurita(ICMCB)
Oral Presentation (Continued)

Jean-marc Heintz (ICMCB)
Jean-francois Silvain (Centre National de la recherche scientifique CNRS)

POLY (VINYL ALCOHOL)/GRAPHENE OXIDE FIBER PREPARED BY GEL PROCESS
Seira Morimune (Kobe University)

NUMBERICAL AND EXPERIMENTAL ANALYSIS FOR MODE I FRACTURE OF TI/APC-2 HYBRID COMPOSITE LAMINATES
Lei Pan (Nanjing University of Aeronautics and Astronautics)

CONTROLLED IMPACT TESTING OF CARBON FIBRE COMPOSITES WITH AND WITHOUT CARBON NANOTUBES AND/OR SMA WIRES
Katerina Sofocleous (University of Cyprus)
Vassilis Drakonakis (University of Cyprus)
Stephen L Ogin (University of Surrey)
Haris Doumanidis (University of Cyprus)

REDUCTION OF SHOCK WAVE AMPLIFICATION IN MULTIPLE BALLISTIC FABRIC LAYER SYSTEMS
Andi Haris (National University of Singapore)
Heow pueh Lee (National University of Singapore)
Tong earn Tay (National University of Singapore)
Boo cheong Khoo (National University of Singapore)
Vincent Bc Tan (National University of Singapore)

Property Calculation System for Injection and Compression Molding of Fiber-filled Polymer Composites
Xiaoshi S Jin (Autodesk, Inc.)
Jin Wang (Autodesk, Inc.)
Sejin Han (Autodesk, Inc.)

Detection of Defects in Composite Structures with 3D Laser Vibrometer
Patrick Peres (ASTRIUM Space Transportation)
David Barnoncel (ASTRIUM Space Transportation)
Wieslaw Jerzy Staszewski (Technical University of Cracow)
Oral Presentation (Continued)

EFFECTS OF NANOCLAYS AND WOOD FLOUR ON THE PERFORMANCE OF POLYURETHANE FOAMS
Mahesh Hosur (Tuskegee University)
Gregory Strawder (Tuskegee University)
Shaik Jeelani (Tuskegee University)

GAS PERMEABILITY OF PARTIALLY SATURATED FABRICS
Thomas Anthony Cender (University of Delaware)
Pavel Simacek (University of Delaware)
Suresh G Advani (University of Delaware)

Quasi-static indentation and compression after impact damage growth monitoring using microfocus X-ray computed tomography
Daniel J Bull (University of Southampton)
Simon M Spearing (University of Southampton)
Ian Sinclair (University of Southampton)

Nanoindentation Response of Piezoelectric Composite Materials
Guang Cheng (State University of New York at Stony Brook)
T.a. Venkatesh (State University of New York at Stony Brook)

A novel injection process for long fiber composites using rotation
Andreas Altmann (Technische Universität München)
Swen Zaremba (Technische Universität München)
Roland Hinterhoelzl (Technische Universität München)
Klaus Drechsler (Technische Universität München)

OPEN DATA FORMATS AND SCRIPTING IN INTEGRATED MESO-LEVEL TEXTILE COMPOSITE SIMULATIONS
Stepan V. Lomov (Katholieke Universiteit Leuven)

MODELING OF MECHANICAL RESPONSE IN CFRP ANGLE-PLY LAMINATES
Shinji Ogihara (Tokyo University of Science)
Hayato Nakatani (Osaka City University)
HOMOGENIZATION AND SENSITIVITY ANALYSIS FOR THERMOELASTIC OPTIMAL DESIGN OF METAL-CERAMIC COMPOSITES
Yuriy Sinchuk (Karlsruhe Institute of Technology)
Romana Piat (Karlsruhe Institute of Technology)

INTERFACE DESIGN OF 3D WIRE STRUCTURES FOR METAL MATRIX COMPOSITES
Steffen Kaina (Technische Universitat Dresden)
Bernd Kieback (Technische Universitat Dresden)
Daniel Weck (Technische Universitat Dresden)
Olaf Andersen (Fraunhofer IFAM Dresden)
Günter Stephani
Eva Kieselstein
Andreas Bascha

Effect of flax fibres individualisation on tensile failure of flax/epoxy unidirectional composite
Guillaume Coroller (Universite de Bretagne Sud)

Numerical validation of homogenization models for the case of ellipsoidal particles reinforced composites
Elias Ghossein (Ecole Polytechnique de Montreal)
Martin Lévesque (Ecole Polytechnique de Montreal)

Thermo-mechanical Characterization of Nano-hydroxyapatite and Cellulose Reinforced poly(Lactic Acid) Composites with Prospective Applications for Bone Substitute Manufacturing
Arman Mahboubi soufiani (University College of Boras)
Masoud Salehi (University College of Boras)
Mikael Skrifvars (University College of Boras)
Sung-woo Cho (Royal Institute of Technology)

AN EXPERIMENTAL AND FINITE ELEMENT STUDY OF THE LONGITUDINAL BENDING BEHAVIOR OF T-JOINTS IN VEHICLE STRUCTURES
Ermias Gebrekidan Koricho (Polytechnic Institute of Turin)
Giovanni Belingardi (Polytechnic Institute of Turin)
Oral Presentation (Continued)

Study of Notch-Sensitivity of Carbon-Glass Intraply Laminates for Aerospace Applications 7330
Don Lee (Toray Composites (America))
Jeffrey Satterwhite (Toray Composites (America))

UNDERWATER RESPONSE OF COMPOSITE PANELS SUBJECTED TO NEAR-FIELD BLAST LOADING 7339
Arun Shukla (University of Rhode Island)
Frank Livolsi (University of Rhode Island)
Daniel Gracia (University of Rhode Island)
James Leblanc (Naval Undersea Warfare Center)

FROM ATTACHED SMA WIRES TO INTEGRATED ACTIVE ELEMENTS – A SMALL STEP? 7348
Moritz Hübler (Institut fuer Verbundwerkstoffe GmbH)
Martin Gurka (Institut fuer Verbundwerkstoffe GmbH)
Ulf Paul Breuer (Institut fuer Verbundwerkstoffe GmbH)

INFLUENCE OF NOTCH GEOMETRY ON BENDING FATIGUE BEHAVIOR OF TWILL E-GLASS/EPOXY COMPOSITE 7358
Giovanni Belingardi (Polytechnic Institute of Turin)
Alem Tekalign Beyene (Polytechnic Institute of Turin)
Ermias Gebrekidan Koricho (Polytechnic Institute of Turin)

Matching matrix and filler dielectric constants to increase dielectric breakdown strength 7366
José Eliseo De León (Iowa State University of Science and Technology)
Daniel J O’Brien (US Army Research Laboratory)
Michael Richard Kessler (Iowa State University of Science and Technology)

THERMAL STRESSES IN FIBER REINFORCED COMPOSITES 7375
George Zhenghong Zhu (York University)
Shen Gong (York University)

HOW VARIOUS UNCERTAINTIES AND ASSUMPTIONS AFFECT B-BASIS ALLOWABLES DEVELOPMENT 7381
Carl Quinn Rousseau (Lockheed Martin)
EFFECT OF CARBON NANOTUBE DEFORMATION ON ELECTRICAL CONDUCTIVITY OF POLYMER COMPOSITES
Shen Gong(York University)
George Zhenghong Zhu(York University)
Emile Haddad(MPB Communications Inc)

SHAPING ANALYSIS OF A NON-CRIMP 3D ORTHOGONAL WEAVE E-GLASS COMPOSITE REINFORCEMENT
Juan Francisco Pazmino(Polytechnic Institute of Milan)
Valter Carvelli(Polytechnic Institute of Milan)
Stepan V. Lomov(Katholieke Universiteit Leuven)

THE HIVOCOMP PROJECT: CARBON FIBRE/PA12 HYBRID SINGLE POLYMER COMPOSITES
Peter Hine(University of Leeds)
Yentl Swolfs(Katholieke Universiteit Leuven)
Ian Ward(University of Leeds)
Ignaas Verpoest(Katholieke Universiteit Leuven)
Mark Bonner(University of Leeds)
Maximilian Mitwalsky(Technische Universitat Munchen)

BIOINSPIRED HIERARCHICAL FUNCTIONAL MATERIALS TEMPLATED FROM NATURAL STRUCTURES
Di Zhang(Shanghai Jiao Tong University)
Wang Zhang(Shanghai Jiao Tong University)
Jiajun Gu(Shanghai Jiao Tong University)
Shenmin Zhu(Shanghai Jiao Tong University)
Huilan Su(Shanghai Jiao Tong University)
Qinglei Liu(Shanghai Jiao Tong University)
Tongxiang Fan(Shanghai Jiao Tong University)
Chuangliang Feng(Shanghai Jiao Tong University)

NACRE-INSPIRED, STRONG AND DUCTILE CNT/AL COMPOSITES FABRICATED BY FLAKE POWDER METALLURGY
Zhiqiang Li(Shanghai Jiao Tong University)
Genlian Fan(Shanghai Jiaotong University)
Oral Presentation (Continued)

Lin Jiang (Shanghai Jiaotong University)
Yishi Su (Shanghai Jiao Tong University)
Di Zhang (Shanghai Jiao Tong University)

INTERFACIAL EVALUATION OF CARBON FIBER/CNT-PHENOLIC COMPOSITES BY DUAL MATRIX COMPOSITES
Joung-man Park (Gyeongsang National University)
Zuo jia Wang (Gyeongsang National University)
Dong-jun Kwon (Gyeongsang National University)
Ga-young Gu (Gyeongsang National University)
Lawrence K. Devries (University of Utah)

Mechanical Testing of Scaled Cellulose Nano-Fiber based Composites made using Micro-RTM Process
Bamdad Barari (University of Wisconsin - Milwaukee)
Krishna M. Pillai (University of Wisconsin - Milwaukee)

Fabrication of self-ameliorating microphases between composite plies by inkjet printing
Yi Zhang (University of Sheffield)

Numeric modeling of the fibrous material weaving process for composite material
Charlotte Florimond (INSA)
Emmanuelle Vidal-sallé (Institut National des Sciences Appliquees de Lyon)
Philippe Boisse (Institut National des Sciences Appliquees de Lyon)
Jérôme Vilfayeau (ENSAIT)

MOLECULAR MODELING OF PHYSICAL AGING IN EPOXY POLYMERS
Ananyo Bandyopadhyay (Michigan Technological University)
Gregory Odegard (Michigan Technological University)

IN VIVO TESTING OF A PHOSPHATE GLASS FIBRE / PLA COMPOSITE USING A RABBIT TIBIA MODEL
Andrew James Parsons (University of Nottingham)

Pumping potential of a left-ventrical-like flexible-matrix-composite structure
Oral Presentation (Continued)

Hany A Ghoneim (Rochester Institute of Technology)

Comparison of response of grooved composites to loading via spherical and cylindrical indenters
Holly K Jeffrey (Massachusetts Institute of Technology)
Paul A Lagace (Massachusetts Institute of Technology)

An Investigation into the Damage Development and Residual Strengths of Open-Hole Specimens in Fatigue
Oliver James Nixon-pearson (University of Bristol)
Stephen Richard Hallett (University of Bristol)

APPROACH FOR DRY TEXTILE COMPOSITE FORMING SIMULATION
Masato Nishi (JSOL Corporation)
Tei Hirashima (JSOL Corporation)

A NOVEL CONCEPT FOR CONFORMAL LOAD-BEARING ANTENNA STRUCTURES USING DISSIMILAR COMPOSITES
Jasim Ahamed (Royal Melbourne Institute of Technology)
Chun H Wang (RMIT University)

SHORT FIBER INTERFACIAL TOUGHENING FOR COMPOSITE-FOAM SANDWICH
Zhi Sun (Dalian University of Technology)
Shiyong Sun (Dalian University of Technology)
Shanshan Shi (Dalian University of Technology)
Haoran Chen (Dalian University of Technology)
Xiaozhi Hu (University of Western Australia)

DURABILITY OF CARBON FIBER REINFORCED COMPOSITE LAMINATES FOR LARGE PRECISE SPACE STRUCTURE UNDER CYCLIC THERMAL LOADING
Satoshi Kobayashi (Tokyo Metropolitan University)
Masahiro Tomite (Tokyo Metropolitan University)
Minoru Iwata (Kyushu Institute of Technology)
Num Huu Tran (Japan Aerospace Exploration Agency)
Ken Goto (Japan Aerospace Exploration Agency)
### Oral Presentation (Continued)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection of Contaminants on CFRP Surfaces - A Necessity for Composite Repair?</td>
<td>7510</td>
</tr>
<tr>
<td>Georg christian Wachinger (EADS Innovation Works)</td>
<td></td>
</tr>
<tr>
<td>MODELING STRUCTURAL BEHAVIOUR OF PVC FOAM SANDWICH PANELS REINFORCED BY CFRP PINS</td>
<td>7516</td>
</tr>
<tr>
<td>Zhongwei Guan (University of Liverpool)</td>
<td></td>
</tr>
<tr>
<td>Jin Zhou (University of Liverpool)</td>
<td></td>
</tr>
<tr>
<td>Wesley J Cantwell</td>
<td></td>
</tr>
<tr>
<td>MODELING WING LEADING EDGE MADE WITH SLM LATTICE CORE AND CFRP SKIN</td>
<td>7524</td>
</tr>
<tr>
<td>Matthew Smith</td>
<td></td>
</tr>
<tr>
<td>Zhongwei Guan (University of Liverpool)</td>
<td></td>
</tr>
<tr>
<td>Wesley J Cantwell</td>
<td></td>
</tr>
<tr>
<td>Bob Mines (University of Liverpool)</td>
<td></td>
</tr>
<tr>
<td>Structural Health Monitoring (SHM) of Composite Aerospace Structures using Lamb Waves</td>
<td>7532</td>
</tr>
<tr>
<td>Shashank Pant (Carleton University)</td>
<td></td>
</tr>
<tr>
<td>Jeremy Laliberte (Carleton University)</td>
<td></td>
</tr>
<tr>
<td>Marcias Martinez (Delft University of Technology)</td>
<td></td>
</tr>
<tr>
<td>FINITE ELEMENT ANALYSIS ON GLASS FIBRE REINFORCED COMPOSITES WITH INORGANIC PHOSPHATE CEMENT MATRIX: COMPARISON OF INBUILT ABAQUS CONCRETE MODELS</td>
<td>7544</td>
</tr>
<tr>
<td>Maciej Mikolaj Wozniak (Vrije Universiteit Brussel)</td>
<td></td>
</tr>
<tr>
<td>Tine Tysmans (Vrije Universiteit Brussel)</td>
<td></td>
</tr>
<tr>
<td>Johnny Vantomme (Vrije Universiteit Brussel)</td>
<td></td>
</tr>
<tr>
<td>OPTIMIZING THE PRODUCTION OF NANOCOMPOSITES VIA EXTRUSION TECHNIQUES USING NANOPARTICLE CONTAINING DISPERSIONS AND THEIR DISPERSION QUALITY</td>
<td>7554</td>
</tr>
<tr>
<td>Irene Hassinger (Institut fuer Verbundwerkstoffe GmbH)</td>
<td></td>
</tr>
<tr>
<td>Thomas Burkhart (Institut fuer Verbundwerkstoffe GmbH)</td>
<td></td>
</tr>
<tr>
<td>Rolf Walter (Institut fuer Verbundwerkstoffe GmbH)</td>
<td></td>
</tr>
<tr>
<td>MEASUREMENT OF THERMAL DEFOEMATION IN CFRP LAMINATE AT DIFFERENT SCALES</td>
<td>7563</td>
</tr>
<tr>
<td>Yoshihisa Tanaka (National Institute for Materials Science)</td>
<td></td>
</tr>
</tbody>
</table>
Oral Presentation (Continued)

SYNTHESIS OF METAL AND METAL OXIDE/CNTs HYBRID NANOPARTICLES AND THEIR REINFORCEMENTS IN POLYMERS 7571
Vijaya K Rangari(Tuskegee University)

PROCESS PARAMETER STUDIES AND COMPARISON OF DIFFERENT PREFORM PROCESSES WITH NCF MATERIAL 7577
Frank Härtel(Universitat Stuttgart)
Peter Middendorf(Universitat Stuttgart)

INTERFACE-CORRELATED BONDING PROPERTIES OF A ROLL BONDED AL-CU SHEET 7588
Kwang seok Lee(Korea Institute of Materials Science)
Yong-nam Kwon(Korea Institute of Materials Science)

Effect of Manufacturing Defects and Their Uncertainties on Strength and Stability of Stiffened Panels 7596
Frank F Abdi(AlphaSTAR Corporation)
Jean-philippe Marouzé(Bombardier)

Use of Carbon Fiber Sensors to Determine the Resin Flow 7606
Mohsen Bakhshi(Hochschule Munchen)
Alexander Horoschenkoff(Hochschule Munchen)

Durability and interphases in adhesively bonded epoxy-polyester interfaces 7614
Mikko Samuli Kanerva(Aalto University)
Essi Sarlin(Tampere University of Technology)
Kosti Rämö(Tampere University of Technology)
Olli Saarela(Aalto University)

TENSILE PROPERTIES OF PAN- AND PITCH-BASED HYBRID CARBON FIBER REINFORCED EPOXY MATRIX COMPOSITES 7626
Kimiyoshi Naito(National Institute for Materials Science)

The Effect of Rubber Thickness and Load Rate on the Interfacial Fracture Energy in Steel/Rubber/Composite Hybrid Structures 7635
Oral Presentation (Continued)

Essi Sarlin (Tampere University of Technology)
Jyrki Vuorinen (Tampere University of Technology)
Minnamari Vippola (Tampere University of Technology)
Toivo Lepistö (Tampere University of Technology)

STUDY ON PRESSURE CONTROL OF AUTOMATED FIBER PLACEMENT PROCESS
Junfei Li (Nanjing University of Aeronautics and Astronautics)
Chao Song (Nanjing University of Aeronautics and Astronautics)
Xianfeng Wang (Nanjing University of Aeronautics and Astronautics)
Jun Xiao (Nanjing University of Aeronautics and Astronautics)

FATIGUE DELAMINATION GROWTH OF ENVIRONMENTALLY AGED/DEGRADED ADHESIVELY BONDED COMPOSITE JOINTS UNDER MODE I LOADING
Chun Li (National Research Council Canada)
Tim Teng (National Research Council Canada)
Gang Li (National Research Council Canada)
Marko Yanishevsky (National Research Council Canada)

FAILURE ANALYSIS AND SIZE SCALING STUDY OF NOTCHED COMPOSITE LAMINATES
Dinh chi Pham (Institute of High Performance Computing A*STAR)

Hot-Wet Environmental Properties of Z-Pinned Carbon-Epoxy Composites
Adrian Mouritz (Royal Melbourne Institute of Technology)

IDENTIFICATION OF FAILURE MECHANISMS IN THERMOPLASTIC COMPOSITES BY ACOUSTIC EMISSION MEASUREMENTS
Markus Günter ronny Sause (University of Augsburg)
Joachim Scharringhausen
Siegfried Horn (Universitat Augsburg)

UTILIZATION OF A THREE-STEP THERMO-MECHANICAL TREATMENT TO MODIFY WOOD PROPERTIES
Rébla Gonçalves Vasconcelos (Universidade de Brasilia)
Claudio Henrique Del menezzi (Universidade de Brasilia)
Oral Presentation (Continued)

EXPERIMENTAL ANALYSIS OF DAMAGE IN FABRIC-REINFORCED COMPOSITES SUBJECT TO LOW-VELOCITY IMPACTS 7700
Vadim V. Silberschmidt (Loughborough University)

NOTCHED-BUTT TEST FOR THE DETERMINATION OF ADHESION STRENGTH AT BIMATERIAL INTERFACES 7708
Bernd Lauke (Leibniz-Istitut fuer Polymerforschung Dresden e.V.)
Alberto Barroso (Universidad de Sevilla)

Control of resin flow using multifunctional interdigital electrode array film during LCM 7710
Ryosuke Matsuzaki (Tokyo University of Science)

THERMAL ANALYSIS AND MICROSTRUCTURE OF FURFURAL ACETONE RESIN-DERIVED CARBON 7719
Zhengwei Zhou (Shanghai University)
Aijun Li (Shanghai University)
Ruicheng Bai (Shanghai University)
Jinliang Sun (Shanghai University)
Musu Ren (Shanghai University)
Hong Li (Shanghai University)

Adaptation of developing tendon-to-bone insertion site to optimize stress environment 7727
Yanxin Liu (Washington University in St. Louis)
Annie Gitomer Schwartz (Washington University in St. Louis)
Victor Mark Birman (Missouri University of Science and Technology)
Stavros Thomopoulos (Washington University in St. Louis)
Guy M Genin (Washington University in St. Louis)

REALIZING WISHFUL DREAM -- TO PREDICT LAMINATE ULTIMATE STRENGTH UPON INDEPENDENT CONSTITUENT PROPERTIES ONLY 7736
Zheng-ming Huang (Tongji University)
Ling Liu (Tongji University)

WEAR BEHAVIOUR OF PARTICULATE REINFORCED ALUMINIUM COMPOSITES 7748
Dimitrios Myriounis (Sheffield Hallam University)
Syed T Hasan(Sheffield Hallam University)
Poster Presentation

LIGNIN FIBERS FOR PRODUCTION OF GREEN NANOCOMPOSITES 7756
Vida Poursorkhabi(University of Guelph)
Manjusri Misra(University of Guelph)
Amar K Mohanty(University of Guelph)

PLASTICIZATION OF CO-PRODUCTS FROM BIOETHANOL INDUSTRIES: POTENTIAL USES IN BIOCOMPOSITES 7764
Rajendran Muthuraj(University of Guelph)
Manjusri Misra(University of Guelph)
Amar K Mohanty(University of Guelph)

ELECTRICAL CONDUCTIVITY AND SPATIAL DISTRIBUTION OF PARTICLE DISPERSED COMPOSITES 7772
Kenjiro Sugio(Hiroshima University)
Narihiro Kawano(Hiroshima University)
Kota Ishikawa(Hiroshima University)
Moonhee Lee(Hiroshima University)
Gen Sasaki(Hiroshima University)

Fabrication of Ag-MWNT composite nanopaste for stretchable and printable electronics 7778
Kwang-seok Kim(Sung Kyun Kwan University)
Bum guen Park(Sung Kyun Kwan University)
Kwangho Jung(Sung Kyun Kwan University)
Seung-boo Jung(Sung Kyun Kwan University)

VIRTUAL TESTING METHODOLOGY FOR THE DEVELOPMENT OF ADVANCED LIGHTWEIGHT DEBRIS CONTAINMENT SYSTEM 7786
Augustin Gakwaya(Laval University)
Ameur Benkhelifa(Laval University)
Dennis Nandlall(Laval University)
Amal Bouamoul(Laval University)
Marie laure Dano(Laval University)

ON THE INTERFACE MODIFICATION AND MICROSTRUCTURE CONTROL OF REINFORCING PARTICLES IN AgSnO2 ECM 7797
Lawson Chen (Shanghai Hiwave Advanced Materials Co. Ltd.)
Xiaotong Chen (Wenzhou Hongfeng Electrical Alloy Co. Ltd)
Weili Liu (Shanghai Hiwave Advanced Materials Co. Ltd.)

**USING FACTORIAL STATISTICAL METHOD FOR OPTIMIZING CO-INJECTED BIOCHAR COMPOSITES**
Matthew J. Zaverl (University of Guelph)
Amar K Mohanty (University of Guelph)
Manjusri Misra (University of Guelph)

**CORROSION STUDIES OF SELECTED FIBRE METAL LAMINATES WITH CARBON AND GLASS FIBRES**
Barbara Surowska (Technical University of Lublin)

The influence of temperature on the strain-rate dependant material behaviour of CFRP under high-dynamic loading
Ralph Bochynek (Technische Universitat Dresden)

**BLENDING OF POLY(LACTIC ACID) AND ACRYLONITRILE BUTADIENE STYRENE FOR USE AS BIO-COMPOSITE MATRIX**
Ryan Vadori (University of Guelph)
Amar K Mohanty (University of Guelph)
Manjusri Misra (University of Guelph)

**ENVIRONMENTAL CONDITIONING EFFECTS ON THE MECHANICAL PROPERTIES OF TITANIUM FIBER-METAL LAMINATES**
Edson Cocchieri Botelho (Universidade Estadual Paulista)
Diego Fernando Silva (EMBRAER S.A.)
Antonio carlos Ancelotti jr
Cesar Augusto Damato

**INFLUENCE OF THE INTERFACE ON THE APPARENT FRACTURE TOUGHNESS AND CRACK PROPAGATION DIRECTION IN LAYERED CERAMIC COMPOSITES**
Lubos Nahlik (Academy of Sciences)
Bohuslav Masa (Academy of Sciences)
A COMPARISON OF CURRENT DESIGN CONCEPTS OF FUSELAGE PANELS UNDER TYPICAL LOAD CONDITIONS
Xiao Cai(Concordia University)
Franck Dervault(Borland Software Corporation)
Suong Hoa(Concordia University)
Ramin Sedaghati(Concordia University)

PLAIN WEAVE REINFORCEMENT IN C/C COMPOSITES VISUALISED IN 3D FOR ELASTIC PARAMETRES
Pavla Tesinova(Technical University of Liberec)

The Reliability Analysis of the Methyl Methacrylate Hardened Hybrid Poplar Wood
Weidan Ding(University of Quebec Abitibi-Temiscamingue)
Dexiang Wu(University of Toronto)
Ahmed Koubaa(University of Quebec Abitibi-Temiscamingue)
Abdelkader Chaala
Cuicui Luo(University of Toronto)

Bacterial cellulose-synthetic polymer composites for bone tissue engineering
Catalin Zaharia(University Politehnica of Bucharest)
Paul Octavian Stanescu(University Politehnica of Bucharest)
Izabela Cristina Stancu(University Politehnica of Bucharest)
Bianca Galateanu(University of Bucharest)
Eugeniu Vasile(University Politehnica of Bucharest)

ACTIVE THERMOGRAPHY AS AN EVALUATION METHOD OF DELAMINATIONS IN COMPOSITE STRUCTURES
Przemyslaw Daniel Pastuszak(Cracow University of Technology)
Aleksander Muc(Cracow University of Technology)

FATIGUE TESTING OF CLOSED-CELL FOAMS, SPECIMEN DESIGN AND VISCOELASTIC CHARACTERIZATION
A Study of Quadriaxial and Triaxial Composite Tubes Developed by Braid-Winding
Sree Shankhachur Roy (University of Manchester)
Prasad Potluri (University of Manchester)
Constantinos Soutis (University of Manchester)

DCB TEST SAMPLE OPTIMIZATION FOR MICRO-MECHANICAL TESTING
Sanita Zike (Technical University of Denmark)
Lars Pilgaard Mikkelsen (Technical University of Denmark)

Improving robotized Non destructive Testing for large parts with local surface approximation and force control scheme
Olivier Patrouix (Ecole Superieure des Technologies Industrielles Avancees)
Sébastien Bottecchia (Ecole Superieure des Technologies Industrielles Avancees)
Joseph Canou (Ecole Superieure des Technologies Industrielles Avancees)

EXPERIMENTAL EVIDENCE OF THE INTERFACE/INTERPHASE FORMATION BETWEEN POWDER COATING AND COMPOSITE MATERIAL
Ahmad Fahs (Universite de Toulon et du Var)
Aurore Lafabrier (Universite de Toulon et du Var)

Design, manufacturing and testing of a small-scale composite morphing wing
François Michaud (Ecole de Technologie Superieure)
Simon Joncas (École de technologie supérieure - Université du Québec)
Ruxandra Botez (Ecole de Technologie Superieure)

Novel Induction Heating Technique for Joining of Carbon Fibre Composites
Chris M Worrall (The Welding Institute (TWI))

Recycling of automotive sheet metal-fibre reinforced plastic-hybrid structures
Bernd Siewers (Universitat Paderborn)
Christian Lauter(Universitat Paderborn)
Joerg Niewel(Universitat Paderborn)
Thomas Troester(Universitat Paderborn)

CONSTITUTIVE THEORY OF YEOH TYPE ELASTIC DIELECTRICS POLYMER
Liwu Liu(Harbin Institute of Technology)
Xinghuan Qi(Beijing University of Posts and Telecommunications)
Yinzi Zhao(Beijing University of Posts and Telecommunications)
Yanju Liu(Harbin Institute of Technology)

Insulating Layered Composite Materials Manufacturing and Thermal Diffusivity Measurements
Adam Dominiak(Technical University of Warsaw)
Roman Domasi(Technical University of Warsaw)

Structure-Process-Property Relationship of Exfoliated Graphite Nanoplatelet / Polylactic Acid Composites Thin Films
Erin Sullivan(Georgia Institute of Technology)
Kyriaki Kalaitzidou(Georgia Institute of Technology)
Ben Wang(Georgia Institute of Technology)

SMALL LEAKAGE BIG PROBLEM - AUTOMATED LEAKAGE DETECTION OF VACUUM SETUPS IN CFRP PRODUCTION
Jens Boelke(Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR))

A study on thermal shock response of Al-Al2O3 micro- and nanocomposites
Khushbu Dash(National Institute of Technology, Rourkela)
Bankim Chandra Ray(National Institute of Technology, Rourkela)

USE SANDWICH COMPOSITES TO MAKE PASSENGER CAR COMPONENTS FOR RAIL TRAIN APPLICATION
Wenguang Ma(Changzhou Tiansheng New Materials Inc.)

Theoretical and Numerical Analysis of stress distribution in CFRP rod bond anchorage
Pan Zhang(Tsinghua University)
Peng Feng(Tsinghua University)
Poster Presentation (Continued)

Orthogonal Stitching of 2D Fabrics for Improved Delamination Resistance 7984
William Richard Kennon (University of Manchester)
Prasad Potluri (University of Manchester)
Devrim Goktas (University of Manchester)

AUTOCLAVE FORMATION TECHNOLOGY FOR CFRTP BRAIDED T-SHAPED PIPE 7992
Toshikazu Uchida (UCHIDA Co. Ltd.)
Koichi Bun (Kyoto Institute of Technology)
Akio Ohtani (Gifu University)
Asami Nakai (Gifu University)

STUDY OF ELECTROMAGNETIC SHIELD EFFECT OF THE METAL-PLATED CARBON FIBER COMPOSITE 8000
Mee-hye Oh (Korea Automotive Technology Institute)

ENVIROMENTAL EFFECTS OF MOSITURE IN GLASS FIBER POLYMER REINFORCED COMPOSITES 8002
Vladimir Alzamora Guzman (Technical University of Denmark)

C0-TYPE EFFICIENT HIGHER-ORDER PLATE THEORY FOR THE THERMO-MECHANICAL ANALYSIS OF LAMINATED COMPOSITE PLATES 8012
Jangwoo Han (Seoul National University)
Jun-sik Kim (Kumoh National University of Technology)
Maenghyo Cho (Seoul National University)

SIZE EFFECTS OF SIC PARTICLES ON MECHNICAL PROPERTIES OF CAST CARBON NANOFIBERS REINFORCED AZ91 MAGNESIUM COMPOSITES 8014
Sang kwan Lee (Korea Institute of Materials Science)

Electrical Properties of Self-aligned in-situ Reduced Graphene Oxide/Epoxy Nanocomposites 8019
Nariman Yousefi (Hong Kong University of Science and Technology)
Xiuyi Lin (Hong Kong University of Science and Technology)
Qingbin Zheng (Hong Kong University of Science and Technology)
Xi Shen (Hong Kong University of Science and Technology)
Jayaram R Pothnis (Hong Kong University of Science and Technology)
Poster Presentation (Continued)

Jingjing Jia (Hong Kong University of Science and Technology)
Jang-kyo Kim (Hong Kong University of Science and Technology)

**NON-DESTRUCTIVE INSPECTION OF CFRPS USING INDUCTION HEATING THERMOGRAPHY**
Yuuki Shiiya (Tokyo University of Science)
Masashi Ishikawa (Tokyo University of Science)
Yasuo Kogo (Tokyo University of Science)
Hiroshi Hatta (Japan Aerospace Exploration Agency)
Yoshio Habuka

**RELATIONSHIPS BETWEEN DEGREE OF SKILL, DIMENSION STABILITY AND MECHANICAL PROPERTIES OF COMPOSITE STRUCTURE IN HAND LAY-UP METHOD**
Tetsuo Kikuchi (Kyoto Institute of Technology)
Hiroyuki Hamada (Kyoto Institute of Technology)
Asami Nakai (Gifu University)
Akio Ohtani (Gifu University)
Akihiko Goto (Osaka Sangyo University)
Yuka Takai (Osaka Sangyo University)
Tetsushi Koshino (Kyoto Institute of Technology)
Atsushi Endo (Kyoto Institute of Technology)
Chieko Narita (Kyoto Institute of Technology)
Akira Fudauchi (Kyoto Institute of Technology)

**Application of furan resin to green composites and the effect of peroxide on furan resin curing**
Hiroha Tanaka (Tokyo Institute of Technology)
Masatoshi Kubouchi (Tokyo Institute of Technology)
Saiko Aoki (Tokyo Institute of Technology)
Terence Palad Tumolva (University of the Philippines Diliman)

**STUDY ON COMPRESSIVE EXPERIMENT OF SINGLE CARBON FILAMENT**
Tong Lili (Harbin Engineering University)
Zhou Peiming (China Agricultural University)

**MECHANICAL CHARACTERIZATION OF NONWOVEN COMPOSITES WITH PET HOLLOW FIBERS AND ELASTOMERIC FIBERS FOR CUSHION MATERIALS**

ICCM19
DURABILITY AND RELIABILITY ASSESSMENT OF CARBON FIBER REINFORCED POLYMERS IN CIVIL APPLICATIONS
Joo Hwan Yoo(Korea Institute of Industrial Technology)
Ki young Kim(Korea Institute of Industrial Technology)

INTERFACIAL ADHESION AND FATIGUE RESISTANCE OF POLYKETONE/RUBBER COMPOSITE
Jongsung Won(Chungnam National University)
Jaejung Yoo(Chungnam National University)
Sunyoung Lee(Chungnam National University)
Seunggoo Lee(Chungnam National University)

SECONDARY FORMING OF HYBRID REINFORCEMENTS METAL MATRIX COMPOSITES
Hyun ho Kim(Pusan National University)
Chung-gil Kang(Pusan National University)

MANUFACTURING AND CHARACTERIZATION OF
Dakyoung Yong(Chungnam National University)
Jaejung Yoo(Chungnam National University)
Taemin Hong(Chungnam National University)
Seunggoo Lee(Chungnam National University)

LINKING PROCESS MODELLING WITH STRUCTURAL ANALYSIS OF COMPOSITE LAMINATED PLATES USING LAYERWISE THEORY
Hamidreza Bakhtiarizadeh(University of British Columbia)
Abdul rahim Ahamed Arafath(Convergent Manufacturing Technologies Inc.)
Reza Vaziri(University of British Columbia)

THE EPOXY BEHAVIOR OF CFRP ACCORDING TO CLEARANCE AND PRESSURE IN COMPRESSION MOLDING FOR U-CHANNEL
Hyun ho Kim(Pusan National University)
Minsik Lee(Pusan National University)
Chung-gil Kang(Pusan National University)

PROCESS ANALYSIS OF HAND LAY UP METHOD BY VARIOUS EXPERIENCE PERSONS 8113
Tetsuo Kikuchi(Kyoto Institute of Technology)
Hiroyuki Hamada(Kyoto Institute of Technology)
Asami Nakai(Gifu University)
Akio Ohtani(Gifu University)
Akihiko Goto(Osaka Sangyo University)
Yuka Takai(Osaka Sangyo University)
Atsushi Endo(Kyoto Institute of Technology)
Tetsushi Koshino(Kyoto Institute of Technology)
Chieko Narita(Kyoto Institute of Technology)
Akira Fudauchi(Kyoto Institute of Technology)

A FACTORIAL DESIGN OF DISTILLERS' GRAINS BASED BIOCOMPOSITES: A PATH TO SUSTAINABILITY OF CORN ETHANOL 8121
Nima Zarrinbakhsh(University of Guelph)
Fantahun M Defersha(University of Guelph)
Amar K Mohanty(University of Guelph)
Manjusri Misra(University of Guelph)

Statistical Analysis of Single PPTA Fibers 8123
Nathanael Alan Heckert(National Institute of Standards and Technology(NIST))
Jae hyun Kim(National Institute of Standards and Technology(NIST))
Gale A Holmes(National Institute of Standards and Technology(NIST))
Walter Mcdonough(National Institute of Standards and Technology(NIST))
Kirk Rice(National Institute of Standards and Technology(NIST))

WEAR RESISTANCE INFLUENCERS OF PARTICLE REINFORCED POLYMER COMPOSITE 8132
Aare Aruniit(Tallinn University of Technology)
Jaan Kers(Tallinn University of Technology)
Andres Krumme
MECHANICAL BEHAVIOR OF SILANE GRAFTED GRAPHENE NANOPLATELETS / SILICONE RUBBER COMPOSITES
Ting-yu Wu(Taiwan Textile Research Institute)
Ting-yu Chang(Taiwan Textile Research Institute)

CHARACTERISATION OF THE MECHANICAL AND THERMAL DEGRADATION BEHAVIOUR OF NATURAL FIBRES FOR LIGHTWEIGHT AUTOMOTIVE APPLICATIONS
José Luis Rudeiros-fernández(University of Strathclyde)
James Thomason(University of Strathclyde)
John Liggat(University of Strathclyde)
Maria Soliman(SABIC)

ELECTRICAL PROPERTY OF MULTIWALLED CARBON NANOTUBES/EPOXY COMPOSITES
Jun Li(York University)
George Zhenghong Zhu(York University)
Shen Gong(York University)

REINFORCING AND COMPATIBILIZING EFFECT OF NANO SIZE MONTMORILLONITE ON HIGH DENSITY POLYETHYLENE-POLYAMIDE6 COMPOSITES
Hajnalka Hargitai(Szechenyi Istvan University)

effect of embedded fiber optic sensor length and orientation on signal properties during fatigue loading
Casey James Keulen(University of British Columbia)
Afzal Suleman(University of Victoria)
Halit Suleyman Turkmen(Istanbul Technical University)
Erdem Akay(Istanbul Technical University)
Esat Selim Kocaman(Sabanci University)
Mehmet Yildiz(Sabanci University)

EXPERIMENTAL DETERMINATION OF AGEING AND DEGRADATION OF GLASS FIBRE REINFORCED COMPOSITES IN PETROCHEMICAL APPLICATIONS
Anastasios Toulitsis(University of Patras)
Morris Roseman(Mitsubishi Electric Research Laboratories)
Roderick Martin(Materials Engineering Research Laboratory Ltd.)
Poster Presentation (Continued)

Vassilis Kostopoulos (University of Patras)

COMPATIBILIZATION OF POLYLACTIDE-BASED FLAX FIBER BIOCOMPOSITES 8189
Andrea Arias (Ecole Polytechnique de Montreal)
Marie-claude Heuzey (Ecole Polytechnique de Montreal)
Michel A. Huneault (University of Sherbrooke)
Cristina Kawano (Ecole Polytechnique de Montreal)

BENDING STIFFNESS BEHAVIOR OF THICK-WALLED COMPOSITE TUBES 8198
Mohamed El-geuchy (Concordia University)
Suong Hoa (Concordia University)
Farjad Shadmehri (Concordia University)

FAILURE ANALYSIS OF WOVEN FABRIC CURVED LAMINATE WITH VARIABLE THICKNESSES 8200
Junqi Zhang (Shanghai Jiao Tong University)
Longquan Liu (Shanghai Jiao Tong University)
Hai Wang (Shanghai Jiao Tong University)

CHARACTERIZATION AND TREATMENT OF WATER HYACINTH FIBERS FOR NFRP COMPOSITES 8208
Terence Palad Tumolva (University of the Philippines Diliman)

Micro-macro approach for predicting localized stress distribution in composites 8219
Saurabh Gupta (Indian Institute of Technology, Bombay)
Ganesh Soni (Indian Institute of Technology, Bombay)
Ramesh Kumar Singh (Indian Institute of Technology, Bombay)

ANALYSIS OF THE CRITICAL MOMENT TRIGGERING OFF SNAP-THROUGH OF BISTABLE COMPOSITE WITH INTIALTIAL CURVATURE 8229
Jong-gu Lee (Seoul National University)
Junghyun Ryu (Seoul National University)
Seung-won Kim (Seoul National University)
Kyu-jin Cho (Seoul National University)
Maenghyo Cho (Seoul National University)
UV curable coating for flame-retardant textile finishing  
Nantana Jiratumnukul(Chulalongkorn University)  
Watcharinporn Promsook(Chulalongkorn University)  

ADHESIVE BONDING LAP SHEAR STRENGTH IMPROVEMENT OF CFR(PEEK) LAMINATES BY SURFACE MORPHOLOGY MODIFICATIONS  
Réda el hak Ourahmoune(Ecole Centrale de Lyon)  
Michelle Salvia(Ecole Centrale de Lyon)  
Nadir Mesrati(Ecole Nationale Polytechnique)  
Thomas Mathia(Ecole Centrale de Lyon)  

Quantifying the shear coupling effect in four-point bending tests of angle ply laminates  
Diane Wowk(Royal Military College of Canada)  
Catharine Marsden(Royal Military College of Canada)  
David Thibaudeau(Royal Military College of Canada)  

Silk hydrogel composite scaffold containing hydroxyapatite nanocrystal  
Kim Hyung hwan(Seoul National University)  
Kang Min ji(Seoul National University)  
Park A reum(Seoul National University)  
Kim Shin hwan(Seoul National University)  
Park Young hwan(Seoul National University)  

CURING KINETIC AND PROPERTIES OF MeHHPA /HYDANTOIN EPOXY RESIN SYSTEM  
Ling Li(North University of China)  

CURE KINETIC OF ADHESIVE FOR RAPID REPAIR BY NON-ISOTHERMAL METHOD  
Ying Chun Li(North University of China)  
Mengyuan Wang(North University of China)  

INSPECTION EFFECTIVENESS OF ULTRASONIC TEST FOR SEVERAL DEGRADED FRP TANKS IN RBI  
Masahiro Kusano(Tokyo Institute of Technology)  
Tetsuya Sakai(Nihon University)  
Saiko Aoki(Tokyo Institute of Technology)
Poster Presentation (Continued)

Masatoshi Kubouchi (Tokyo Institute of Technology)

THE PERFORMANCE OF THE IONIC LIQUID-CONTAINING ELECTROACTIVE POLYMER ACTUATORS UNDER AMBIENT AIR CONDITIONS
Indrek Must (University of Tartu)
Alvo Aabloo (University of Tartu)
Inga Põldsalu (University of Tartu)
Friedrich Kaasik (University of Tartu)
Urmas Johanson (University of Tartu)
Andres Punning (University of Tartu)

An automated unit-cell modelling tool UnitCells on Abaqus platform drawing functionalities from multiple external codes
Tian-hong Yu (University of Nottingham)
Qing Pan (University of Nottingham)
Shuguang Li (University of Nottingham)

OUT-OF-PLANE TENSILE MODULUS OF UD-CFRP LAMINATE BY 3-POINT BENDING TEST
Eiichi Hara (Japan Aerospace Exploration Agency)

CFRP recycling using depolymerization of acid anhydride cured epoxy resin
Katsuji Shibata (Hitachi Chemical Co. Ltd.)
Mitsuru Sasaki (Kumamoto University)

TIMESAVING QUALITY ASSURANCE FOR THE AUTOMATED PREFORMING PROCESS IN THE AUTOMOBILE SERIAL PRODUCTION OF CARBON COMPOSITES
Daniel Brabandt (Karlsruhe Institute of Technology)
Gisela Lanza (Karlsruhe Institute of Technology)
Patrick Bingemann (Karlsruhe Institute of Technology)

EVALUATION OF THERMAL CYCLING INFLUENCE ON PEI/CARBON FIBER COMPOSITES WITH AEROSPACE APPLICATION
Natassia Lona Batista (Universidade Estadual Paulista)
Edson Cocchieri Botelho (Universidade Estadual Paulista)
Koshun Iha
ON THE ANALYSIS OF A CONTACT FRICTION COMPOSITE-TO-METAL JOINT
Andrei Costache (Technical University of Denmark)
Konstantinos N. Anyfantis (Technical University of Denmark)
Christian Berggreen (Technical University of Denmark)

AN INVESTIGATION INTO MATRIX CRACKING IN TRANSVERSE PLIES LEADING TO DELAMINATION CRACKS AT PLY BOUNDARIES.
Daniel J Mortell (University of Limerick)
David A Tanner (University of Limerick)
Conor T. Mccarthy (University of Limerick)

NANOCLAY EXFOLIATION PROCESS FOR EPOXY/ORGANOCLAY NANOCOMPOSITES: EFFECT OF EPOXY REACTIVE DILUENTS AND DIAMINE CURING AGENTS
Wiwat Keyoonwong (Tokyo Institute of Technology)
Masatoshi Kubouchi (Tokyo Institute of Technology)
Saiko Aoki (Tokyo Institute of Technology)

ADHESION EVALUATION IN CARBON FIBER AND CONCRETE MATRIX COMPOSITES
Gerson Marinucci (Nuclear and Energy Research Institute - IPEN)
Reinaldo Leonel Caratin (Nuclear and Energy Research Institute - IPEN)

FABRICATION AND MECHANICAL PROPERTIES OF SELF-REINFORCED POLYESTER DOUBLE COVERED UNCOMMINGLED YARN COMPOSITES
Chang-mou Wu (National Taiwan University of Science and Technology)

STRENGTH ESTIMATION FOR FORMED PARTS OF CARBON FIBER REINFORCED THERMOPLASTIC COMPOSITE BY ACCOUNTING FOR FORMING PROCESS EFFECTS
Takushi Miyake (Gifu University)
Masako Seki (Gifu University)

Effect of carbon nanotubes addition on the properties of flexible polyurethane foams
Anna Bryskiewicz (Technical University of Warsaw)
Joanna Ryszewska (Technical University of Warsaw)

DEVELOPMENT STUDY OF LIGHTWEIGHT STRUCTURAL MATERIALS USING UD CARBON NANOTUBE SHEET
IN SITU DAMAGE MECHANISMS INVESTIGATION OF POLYAMIDE/SHORT GLASS FIBER COMPOSITE
Muhammad Fatikul Arif(Arts et Metiers Paris Tech)
Nicolas Despringre(Arts et Metiers ParisTech)
Yves Chemisky(Arts et Metiers ParisTech)
Gilles Robert(Solvay Engineering Plastics)
Fodil Meraghni(Ecole Nationale Superieure d'Arts et Metiers de Paris)

TOWARDS STRAIN-BASED STRUCTURAL HEALTH MONITORING OF A COMPOSITE AIRFOIL UNDER UNCERTAINTY
Hessamodin Teimouri(University of British Columbia)
Abbas Milani(University of British Columbia)
Rudolf Seethaler(University of British Columbia)
Ali Abedian(Sharif University of Technology)
Amir Heidarzadeh(Sharif University of Technology)
Behnam Teimouri(University of Tehran)

COMPARISON OF THREE NDT TECHNIQUES FOR THE INSPECTION OF AERONAUTIC COMPOSITE STRUCTURES
Robin Dube(Centre Technologique en Aerospatiale)
Laurent Scheed(Centre technologie en aeroespaitale)
Jacques Lewandowski(Centre Technologique en Aerospatiale)
Laura Mouret(Centre Technologique en Aerospatiale)
Marc P. Georges(Universite de Liege)

UREAURETHANES WITH ADDITION OF BOEHMITE
Poster Presentation (Continued)

Kamila Pietrzak (Technical University of Warsaw)
Joanna Ryszkowska (Technical University of Warsaw)

FABRICATION OF ALUMINIUM COMPOSITES REINFORCED WITH POWDERS AND CERAMIC PREFORMS BY A CENTRIFUGAL PROCESS
Anna Janina Dolata (Silesian Technical University of Gliwice)
Maciej Dyzia (Silesian Technical University of Gliwice)

MOULD CASTING OF ALUMINIUM MATRIX HETEROPHASE COMPOSITES
Maciej Dyzia (Silesian Technical University of Gliwice)
Anna Janina Dolata (Silesian Technical University of Gliwice)

COST-SAVING POTENTIALS FOR CFRP PARTS IN EARLY DESIGN STAGES
Konstantin Horejsi (Montanuniversitat Leoben)
Johannes Noisternig
Olaf Koch
Ralf Schledjewski (Montanuniversitat Leoben)

Porosity elimination related from the volatiles from the polymerization in RTM processing
Cédric Pupin (Ecole Polytechnique de Montreal)

FRACTURE ANALYSIS OF NEEDLE PUNCHED NONWOVEN COMPOSITE WITH OPEN HOLE
Zhiyuan Zhang (Kyoto Institute of Technology)
Gustav Martin Wizemann (Groz-Beckert KG)
Yuqi Yang (Donghua University)
Hiroyuki Hamada (Kyoto Institute of Technology)

INFLUENCE OF THERMAL TREATMENT ON PROPERTIES OF THIN-FILM COMPOSITES CdS–PbS OBTAINED AT THE CdS(sol)/Pb2+(aqua) INTERFACE
Larisa Maskaeva (Ural Institute of State Fire Safety Service)
Natalia Forostyanaya (Ural State Technical University)
Zinaida Smirnova (Ural Federal University)
Vyacheslav Markov (Ural State Technical University)

SHAPE-ADAPTIVE COMPOSITE MARINE PROPELLERS – ANALYSIS AND OPTIMIZATION


Poster Presentation (Continued)

Manudha Thiyunuwan Herath (University of New South Wales)
Sundararajan Natarajan (University of New South Wales)
B. gangadharma Prusty (University of New South Wales)
Nigel St. john (Australian Government Defence Science and Technology Organisation)

Ballistic impact behavior of carbon nanotube dispersed epoxy resin: Parametric studies 8485
Kedar Sanjay Pandya (Indian Institute of Technology, Bombay)
Niranjan K Naik (Indian Institute of Technology, Bombay)

Study on properties of composites reinforced by heat-treated glass fibres simulating thermal recycling conditions 8496
Ulf Nagel (University of Strathclyde)
Chih-chuan Kao (University of Strathclyde)
James Thomason (University of Strathclyde)

DIRECT NUMERICAL SIMULATION OF DAMAGE PROGRESSION IN LAMINATED COMPOSITE PLATES USING MULTI-SCALE MODELLING 8505
Nitesh Kumar Karna (Seoul National University)
Heejin Kang (Seoul National University)
Kookjin Park (Seoul National University)
Kyungmin Nam (Seoul National University)
Chanhoon Chung (Seoul National University)
Minkee Kim (Korea Aerospace Research Institute)
Ik-hyeon Choi (Korea Aerospace Research Institute)
Sangjoon Shin (Seoul National University)

A new 3D finite element model for the mechanical analysis of random fiber composite 8513
Zixing Lu (Beijing University of Aeronautics and Astronautics)
Zeshuai Yuan (Beijing University of Aeronautics and Astronautics)
Qiang Liu (Beijing University of Aeronautics and Astronautics)

A NEW DYNAMIC REANALYSIS METHOD FOR THE COMPOSITE STRUCTURES 8521
Xu Zhong Hai (Harbin Institute of Technology)

ESTIMATION OF MECHANICAL PROPERTIES FOR FIBER REINFORCED COMPOSITES WITH WASTE FABRIC AND POLYPROPYLENE FIBER 8526
Poster Presentation (Continued)

Yuki Murakami (Osaka University)
Tetsusei Kurashiki (Osaka University)
Daiki Tanabe (Osaka University)

SPIN TEST OF THE DISK MADE OF CARBON FIBER REINFORCED THREE-DIMENSIONAL COMPOSITES
Yuichi Nagura (Tokyo University of Science)
Noboru Hiroshima
Hiroshi Hatta (Japan Aerospace Exploration Agency)
Ken Goto (Japan Aerospace Exploration Agency)
Yasuo Kogo (Tokyo University of Science)

Polylactic acid/halloysite nanocomposites films by solvent casting method
Rangika Thilan De Silva (Monash University)
Pooria Pasbakhsh (Monash University)

ANALYSIS OF BI-STABILITY AND RESIDUAL STRESS RELAXATION IN HYBRID UNSYMMETRIC LAMINATES
Fuhong Dai (Harbin Institute of Technology)

SOLVENT-CAST DIRECTWRITE MICROFABRICATION OF THERMOPLASTIC-BASED NANOCOMPOSITE STRUCTURES
Shuang-zhuang Guo (Ecole Polytechnique de Montreal)
Marie-claude Heuzey (Ecole Polytechnique de Montreal)
Daniel Therriault (Ecole Polytechnique de Montreal)

4-POINT BENDING FATIGUE TESTING OF THIN CARBON-EPOXY LAMINATES
Catharine Marsden (Royal Military College of Canada)
Chun Li (National Research Council Canada)
Mark Biernacki (Royal Military College of Canada)
Scott Joseph Carnegie (Queen's University)

RECYCLING OF MARKET CFRP/CFRTP WASTE FOR MASS PRODUCTION APPLICATION
Haowen Wei (Tokyo University)
Tatsuro Akiyama (Tokyo University)
ADHESIVE STRAIN MEASUREMENT IN PATCH REPAIRED CFRP LAMINATE USING 2D DIC
Mohammad Kashfuddoja(Indian Institute of Technology, Hyderabad)
Ramji Manoharan(Indian Institute of Technology, Hyderabad)

OPTIMIZATION AND EXPERIMENT OF COMPOSITE SQUARE BEAM
Mingsen Yi(Harbin Engineering University)

FULL FIELD STRAIN CHARACTERISTICS OF COMPOSITE LAMINATE WITH IMPACT DAMAGE UNDER IN-PLANE LOAD
Yu Zhefeng(Shanghai Jiao Tong University)
Ba Taxi(Shanghai Jiao Tong University)
Hai Wang(Shanghai Jiao Tong University)

High cycle fatigue life evaluation of damaged composite rotor blades
Youngjung Kee(Korea Aerospace Research Institute)
Seungho Kim(Korea Aerospace Research Institute)

OXIDATION OF ZIRCONIUM DIBORIDE-SILICON CARBIDE CERAMIC COMPOSITES IN DISSOCIATED OXYGEN
Hua Jin(Harbin Institute of Technology)
Songhe Meng(Harbin Institute of Technology)
Weihua Xie(Harbin Institute of Technology)
Chenghai Xu(Harbin Institute of Technology)
Liyuan Qin(Harbin Institute of Technology)

DSC INVESTIGATION OF THE INFLUENCE OF CARBON CONTENT ON PEEK CRYSTALLISATION
Olivier De almeida(Institut Clément Ader)
PROCESSING AND PROPERTIES OF NATURAL FIBERS REINFORCED THERMOPLASTIC AND THERMOSSETING COMPOSITES
Joao Francisco Silva(Instituto Politecnico do Porto)
Joao Pedro Nunes(Universidade do Minho)
Ana Catarina Duro(Universidade do Minho)
Bruno Francisco Castro(Instituto Politecnico do Porto)

MULTISCALE DAMAGE MODELING FOR HIGHLY-FILLED PARTICULATE COMPOSITES: PARTICLE SIZE EFFECT AND COUPLING WITH FINITE STRAINS
Marion Trombini(Institut Pprime CNRS ISAE-ENSMA)
Carole Nadot-martin(Institut Pprime CNRS ISAE-ENSMA)
Damien Halm(Institut Pprime CNRS ISAE-ENSMA)
Gérald Contesse(Commissariat a lenergie atomique et aux energies alternatives CEA)
Alain Fanget

EFFECT OF GEOMETRIC ERRORS ON THE BEHAVIOUR OF MULTI-BOLT COMPOSITE JOINTS
Christophe Bois(University Bordeaux I)
Julie Lecomte(University Bordeaux I)
Erwann Le goff(University Bordeaux I)
Jean-christophe Wahl(University Bordeaux I)
Hervé Wargnier(University Bordeaux I)

Improvement method of the adhesive bonding between the PEI and CFRP for the ultracentrifuge rotor
Soon Ho Yoon(Korea Institute of Materials Science)

Mean and variation based fuzzy characterization of Young’s modulus of a flax/epoxy biocomposite material
Reza Soufian Khakestar(University of Quebec at Trois Rivieres)
Lotfi Toubal(University of Quebec at Trois Rivieres)
Luc Laperriere(University of Quebec at Trois Rivieres)
Kossi Fabrice Sodoke (University of Quebec at Trois Rivieres)

**COMPARISON OF CONSOLIDATED COMPOSITES USING MECHANICAL TESTING AND A MULTI-CRITERIA DECISION MAKING TECHNIQUE UNDER VARIABLE MATERIAL PROPERTIES**
Jeremy Leung (University of British Columbia) Melissa Heinrick (University of British Columbia) Abbas Milani (University of British Columbia)

**Flax Filled Thermoplastic BioComposite Development for Automotive Applications**
Stephen Meatherall (Composites Innovation Centre) Frank Wheeler (Composites Innovation Centre)

**Evaluation of splice-type crack arrester under mode II type loading for foam core sandwich panel**
Yasuo Hirose (Kanazawa Institute of Technology) Hirokazu Matsuda (Kawasaki Heavy Industries Ltd.) Go Matsubara (Kawasaki Heavy Industries Ltd.) Masaki Hojo (Kyoto University) Keishiro Yoshida (Kanazawa Institute of Technology)

**ON THE NUMERICAL MODELLING OF THE BEHAVIOUR OF MECHANICALLY JOINTED TIMBER BASED COMPOSITE CONNECTIONS**
Hacene Ait-aider (Universite Mouloud Mammeri de Tizi Ouzou) Marc Oudjene (University of Lorraine) El mahdi Meghlat (Universite Mouloud Mammeri de Tizi Ouzou)

**OPTIMIZATION OF IMPACT PERFORMANCE OF COMPOSITES USING ARTIFICIAL NEURAL NETWORKS AND EVOLUTIONARY ALGORITHMS**
Abul fazal M Arif (King Fahad University of Petroleum and Minerals) Muhammad Haris Malik (King Fahad University of Petroleum and Minerals)

**PHOSPHORUS-CONTAINING FLAME RETARDANT COMPOSITES WITH RAMIE FIBER AND POLY(LACTIC ACID)(PLA)**
Tao Yu (Tongji University) Yan Li (Tongji University)
PREPARATION AND THERMAL CHARACTERISTICS OF MORTAR CONTAINING HEXADECANE/XGNP SPCM
Sughwan Kim(Soongsil University)
Jungki Seo(Soongsil University)
Okyoung Chung(Soongsil University)
Sumin Kim(Soongsil University)

Thermal decomposition of PBO fiber and high thermal mechanical properties of PBO composite materials
Liping Bian(National University of Defense Technology)
Jiayu Xiao(National University of Defense Technology)
Jingcheng Zeng(National University of Defense Technology)
Suli Xing(National University of Defense Technology)
Changping Yin(National University of Defense Technology)
Jinshui Yang(National University of Defense Technology)

LOCAL STRAIN RATE EFFECT ON DAMAGE IN GLASS FIBER REINFORCED ETHYLENE-PROPYLENE COMPOSITE
Joseph Fitoussi(Ecole Nationale Superieure d'Arts et Metiers de Paris)
Michel Bocquet( Arts et Metiers Paris Tech)
Fodil Meraghni(Ecole Nationale Superieure d'Arts et Metiers de Paris)

MICROMECHANICAL MODELLING OF DAMAGE PROCESSES IN COMPOSITE MATERIALS
Darko Ivancevic(University of Zagreb)
Ivica Smojver(University of Zagreb)

NUMERICAL SIMULATION OF COMPOSITE STRUCTURE REPAIRED BY EXTERNAL BONDED PATCHES UNDER TENSILE LOADING USING COHESIVE ELEMENTS
Lingling Peng(Universite de Bourgogne)
Xiaojing Gong(Universite de Bourgogne)
Zheng Li(Peking University)
Laurent Guillaumat(Ecole Nationale Superieure d'Arts et Metiers de Paris)

MICROWAVE SINTERING OF METALLIC POWDER COMBINED WITH UNIAXIAL PRESSURE
Amelie Veillere(ICMCB)
IMPACT OF MWCNT ON ELECTRICAL CONDUCTIVITY OF CARBON FIBER MULTISCALE COMPOSITES
Maxime Arguin(Ecole Polytechnique de Montreal)
Daniel Therriault(Ecole Polytechnique de Montreal)
Frederic Sirois(Ecole Polytechnique de Montreal)

EFFECTS OF SHORT CARBON FIBERS APPLICATION
Anita Olszowka-myalska(Silesian Technical University of Gliwice)
Jerzy Myalski(Silesian Technical University of Gliwice)

GLASSY CARBON PARTICLES AS A COMPONENT
Anita Olszowka-myalska(Silesian Technical University of Gliwice)
Jerzy Myalski(Silesian Technical University of Gliwice)

CASTOR OIL BASED BIO-URETHANE NANOCOMPOSITES
Ji hoon Yu(Inha University)
Jae hong Go(Inha University)
Jin-san Yoon(Inha University)
In kyung kim
Kyurin Kim(Sichem Co. Ltd.)
Eun-ju Lee(Korea Engineering Plastics Co. Ltd)
Eun-soo Park(Youngchang Silicone Co. Ltd.)

MODELLING OF THE THERMO-MECHANICAL PROPERTIES OF WOVEN COMPOSITES DURING THE CURE
Loleï Khoun(National Research Council Canada)
Pascal Hubert(McGill University)
Krishna S Challagulla(Laurentian University)

SOL GEL MODIFIED DERIVED CaO-MgO-SiO2 CERAMIC GLASS SYSTEM PREPARATION AND IN VITRO CHARACTERIZATION
Chieko Yamagata(Nuclear and Energy Research Institute - IPEN)
BUCKLING AND POST-BUCKLING BEHAVIOUR OF TOP-HAT CROSS-SECTION COMPOSITE BEAMS WITH VARIOUS SEQUENCES OF PLIES
Hubert Debski (Lublin University of Technology)

Adhesion and degradation of well-designed titanium-PEEK interfaces within Titanium-CF/PEEK laminates
Karola Schulze (German Aerospace Center)

IMPACT MODIFICATION OF WASTE PLASTIC/WOOD FLOUR COMPOSITES VIA STRUCTURAL MODIFICATION
Adel Ramezani kakroodi (Laval University)
Yasamin Kazemi (Laval University)
Denis Rodrigue (Laval University)

STATISTICAL ANALYSIS AND MECHANICAL BEHAVIOR FOR POLYPROPYLENE COMPOSITES REINFORCED WITH BENZOYLATED SUGARCANE FIBERS
Rosineide Miranda Leão (Universidade de Brasilia)

MECHANICAL PROPERTIES AND ENERGY ABSORPTION BEHAVIOUR OF POLYMER-NANOCOMPOSITES
James Njuguna (Cranfield University)
Laura Gendre (Cranfield University)
Jinchun Zhu (Cranfield University)

Thermal Elastic Buckling of plates made of carbon nanotube-reinforced polymer composite materials
Jairan Nafar dastgerdi (Aalto University)

EFFECT OF PLASMA SURFACE TREATMENT OF RECYCLED CARBON FIBER ON THE MECHANICAL PROPERTIES OF RECYCLED CFRP

Mayara Rafaela Soares Paiva (Nuclear and Energy Research Institute - IPEN)
Olga Zazuko Higa (Nuclear and Energy Research Institute - IPEN)
Andrea Cecilia Dorion Rodas (Nuclear and Energy Research Institute - IPEN)
Antonio Carlos Franco Silveira (Universidade de Sao Paulo)
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Adel Ramezani kakroodi (Laval University)
Yasamin Kazemi (Laval University)
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Rosineide Miranda Leão (Universidade de Brasilia)
James Njuguna (Cranfield University)
Laura Gendre (Cranfield University)
Jinchun Zhu (Cranfield University)
Jairan Nafar dastgerdi (Aalto University)
Poster Presentation (Continued)

Hooseok Lee (The University of Tokyo)
Yukio Ozaki (The University of Tokyo)
Masachika Yamane (The University of Tokyo)
Jun Takahashi (The University of Tokyo)
Isamu Oshawa (The University of Tokyo)

**Surface stress effect in thin films with nanoscale roughness**
Mikhail Grekov (St. Petersburg State University)
Sergey Kostyrko (St. Petersburg State University)

**BLOCK COPOLYMERS ORGANIZATION AT INTERFACE**
Diane Fischer (Universite de Haute-Alsace)
Sophie Bistac (Universite de Haute-Alsace)
Maurice Brogly (Universite de Haute-Alsace)

**New Flax/Epoxy and CF/Epoxy Composite Materials for Bone Fracture Plate Applications: A Biological and Wettability Study**
Zahra Shaghayegh Bagheri (Ryerson University)
Ihab El-sawi (Ryerson University)
Asma Amleh (American University in Cairo)
Emil H. Schemitsch (University of Toronto)
Rad Zdero (Ryerson University)
Habiba Bougherara (Ryerson University)

**TRANSIENT PLANE WAVES PROPAGATION IN NON-HOMOGENEOUS ELASTIC PLATE**
Volodymyr Hutsaylyuk (Military University of Technology)
Heorhiy Sulym (University of Bialystok)
Iaroslav Pasternak
Igor Turchyn (Lviv State Ivan Franko University)

**VARIABLE STIFFNESS FLEXIBLE MATRIX LAMINATES WITH PRESCRIBED FINITE ELASTIC DEFORMATION**
Carlos Santos Sousa (Universidade do Porto)
Pedro P. Camanho (Universidade do Porto)
Afzal Suleman (University of Victoria)
Poster Presentation (Continued)

Francisco Manuel Pires (Universidade do Porto)

FAILURE MECHANISM OF A SINGLE-LAP HYBRID JOINT OF COMPOSITE LAMINATE SCREWED AND BONDED TO A STEEL PLATE
Songwei Wang (Beijing University of Aeronautics and Astronautics)
Xiaoquan Cheng (Beijing University of Aeronautics and Astronautics)
Zhonghai Li (Beijing University of Aeronautics and Astronautics)
Jiayi Qi (Beijing University of Aeronautics and Astronautics)
Qunfeng Cheng (Beijing University of Aeronautics and Astronautics)

THE COMPRESSION RESIN TRANSFER MOULDING PROCESS FOR EFFICIENT COMPOSITE MANUFACTURE
Kunal Masania (Fachhochschule Nordwestschweiz)
Clemens Dransfeld (University of Applied Sciences and Arts Northwestern Switzerland)
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Bending deformation limits for corrugated morphing skins
Andre Schmitz (Technische Universitaet Carolo-Wilhelmina Braunschweig)
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A Study on the Mechanical Property of Glass/Jute Inter-laminate Hybrid Fabric Composite
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Three-Dimensional Ultrasonic Cutting of RTM Preforms – A Part of a High Volume Production System
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In situ monitoring of liquid composite processing
Fabien Cara (TFX SA)
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Reduction of phase noise to enhance detectable depth of defects in CFRPs using pulse phase thermography
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Tensile properties of bamboo, jute and kenaf mat-reinforced composites
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THE APPLICATION OF MEDIUM TEMPERATURE CURED WITH HIGH GLASS TRANSITION TEMPERATURE RESIN SYSTEM ON BICYCLE RIMS
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TRANSVERSE MECHANICS OF UNIDIRECTIONAL TEXTILE FIBROUS MATERIALS
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ELASTIC ANALYSIS OF CIRCULAR SANDWICH PLATES WITH FGM FACE-SHEETS
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DAMAGE EVALUATION IN PAPER-BASED FRICTION MATERIALS SUBJECTED TO COMPRESSIVE LOADING
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LONG TERM DURABILITY OF UNIDIRECTIONAL CFRP USING TOUGHENED MATRIX RESIN 9018
Shunnosuke Ohta (Kanazawa Institute of Technology)
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PREDICTION OF OPEN HOLE COMPRESSIVE FAILURE FOR QUASI-ISOTROPIC CFRP LAMINATES BY MMF/ATM METHOD 9026
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LIFETIME PREDICTION OF SELF-HEALING CERAMIC MATRIX COMPOSITE STRUCTURES 9035
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Influence of stress field at overlap edge of CFRP single-lap joint on fiber optic distributed sensing using embedded FBG 9045
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RULE OF MIXTURE FOR COMPOSITE THERMOELECTRICS 9053
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Influence of polyurethane surface treatment on basalt reinforced thermosetting epoxy resin matrix composites: mechanical and thermal properties
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REALIZING DOMAIN SUPERPOSITION MODEL IN NASTRAN FOR PREDICTING THE MECHANICAL PROPERTIES OF TEXTILE COMPOSITE
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POLY(3HYDROXYBUTYRATE-CO-3HYDROXYVALERATE) / CLAY NANOCOMPOSITES FOR PACKAGING APPLICATIONS
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FIBRE CHARACTERISATION OF STEAM THERMAL PROCESS RECYCLED CARBON FIBRE/EPOXY COMPOSITES
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NUMERICAL STUDY OF COMPACTION INFLUENCE ON SPRING-IN OF THIN COMPOSITE COMPONENTS MANUFACTURED BY VACUUM BAG PROCESS
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Degradation and deformation of carbon phenolic ablator under elevated temperature processes
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PREPERATION AND CHARACTERIZATION OF GREEN COMPOSITE USING LACTIC ACID MODIFIED LIGNIN
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PREPARATION AND CHARACTERIZATION OF OPTICAL FIBERS EMBEDDED SMART GEOCOMPOSITE
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Laser surface treatment of Al-Sip composites
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Enhanced Filament Winding Simulation for improved Structural Analysis of Composite Pressure Vessels
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EFFECT OF CARBON NANOFIBERS ON COMPRESSION PROPERTIES OF POLYESTER
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Luminescent method of assessing the structural modifications of polymer matrices
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Influence of low velocity impact on the fatigue behavior of woven hemp/epoxy composite
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Poster Presentation (Continued)

Wrinkling in Graphene Oxide Papers: Effect on Young's Modulus 9208
Xi Shen (Hong Kong University of Science and Technology)
Xiuyi Lin (Hong Kong University of Science and Technology)
Nariman Yousefi (Hong Kong University of Science and Technology)
Jingjing Jia (Hong Kong University of Science and Technology)
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Improved Young's Modulus of Graphene Papers Made From Large Graphene Oxide Sheets 9216
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Xiuyi Lin (Hong Kong University of Science and Technology)
Nariman Yousefi (Hong Kong University of Science and Technology)
Jingjing Jia (Hong Kong University of Science and Technology)
Jang-kyo Kim (Hong Kong University of Science and Technology)

JOINT EFFICIENCY OF MULTI-POINT SPOT ULTRASONIC WELDING FOR CFRTP 9224
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Kiyoshi Uzawa (Kanazawa Institute of Technology)
Hideaki Murayama (The University of Tokyo)
Isamu Ohsawa (The University of Tokyo)
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THERMOELECTRIC PROPERTIES OF Ni/TiO2-X COMPOSITES 9233
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INTERFACE MICROSTRUCTURE OF A DOUBLE-POURED AL/AL-5Cu BIMETALLIC COMPOSITE 9241
Guo Wu (University of Oxford)
Marina Galano (University of Oxford)
Keyna O'Reilly (University of Oxford)
Predicting damage propagation of composite T-joints using a mixed damage model
Jiye Chen (University of Portsmouth)

From Microstructure Characterization to Multi-Scale Modelling of Injected Carbon Fibre Reinforced PEEK
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TOWARDS COST-EFFECTIVE TEXTILE CHARACTERISATION: KEY PARAMETERS IN MATERIAL CHARACTERISATION
Andrew Walbran (Technische Universitat Munchen)
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CURRENT-VOLTAGE CHARACTERISTICS OF NANO-PLATELET BASED CONDUCTIVE NANO-COMPOSITES
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Effect of sizing on the interfacial properties of carbon fiber/BMI under different processing temperature
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Yanxia Li (Beijing University of Aeronautics and Astronautics)
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Mechanical Behaviour of Glass Fibre-Reinforced Polymer Thin Rods 9278
Daxu Zhang(Shanghai Jiao Tong University)
Xiaoyan Wang
Wujun Chen(Shanghai Jiao Tong University)
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SAHPE-MEMORY COMPOSITE ACTUATOR WITH SMA AND SMP 9285
Hisaaki Tobushi(Aichi Institute of Technology)
Kohei Takeda(Aichi Institute of Technology)
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Syunichi Hayashi

Foreign object impact damage simulation of titanium matrix composites 9296
Tomohiro Yokozeki(The University of Tokyo)
Naoki Kootsuka(The University of Tokyo)
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EFFECTS OF COUPLING AGENTS AND SURFACE TREATED CARBON NANOTUBES IN PET REGRANULATES DERIVED FROM BOTTLE WASTES 9304
Csilla Varga(University of Pannonia)

Tribological behavior of A319-Al2O3 or C particulate composites fabricated by stir and squeeze casting methods 9306
Essam Ahmed Shalaby(Central Metallurgical R&D Institute)

INFLUENCE OF FABRICATION CONDITIONS ON PROPERTIES OF PLA/PBAT WOOD COMPOSITE STRAND 9316
Nattakarn Hongsriphan(Silpakorn University)

THE TOUGHNESS OF EPOXY POLYMERS AND FIBRE COMPOSITES MODIFIED WITH RUBBER MICROPARTICLES AND SILICA NANOPARTICLES 9324
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Dear Colleagues,

On behalf of the organizing committee and all of those who have been involved in the preparation for the 19th International Conference on Composite Materials (ICCM19), we wish to welcome all participants of ICCM19. It is a great honor and our great pleasure to host ICCM19 in Montreal for the first time.

We expect about 1600 participants from around the world representing 47 countries. ICCM19 continues to succeed in the tradition of the ICCM as the biggest and the best conference in composite materials with the contribution of all the participants and the related societies from all over the world. Also it will offer the perfect opportunity to meet colleagues and make friends working in the same field.

In ICCM19, the scientific program has been organized into multidisciplinary sessions for specialists in composite materials and its related fields. We have planned 8 plenary lectures and 10 key note lectures. For ICCM19, we have introduced a new format for the poster presentations. This allows the poster presenters more assured audience and more opportunities for presentation. There are about 230 oral sessions (about 1000 oral presentations) and 18 poster sessions (about 250 poster presentations). ICCM19 will provide every participant the best platform to discuss the cutting edge issues which arise from the broad areas of composite materials.

We wish to take this opportunity to thank all the sponsors, and supporters for their generous support for ICCM19. We would like to convey our sincere gratitude to the international members for their valuable support as well as to the members of the ICCM19 organizing committee for their tremendous efforts in making ICCM19 a success.

We wish all of you a fruitful meeting and we hope that you will benefit from the rich scientific discussions, and that your visit to Montreal will last as a pleasant memory.

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- **Composites in Civil Construction**
- **Composites in Wind Energy Technology**
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Constructions

Wind Turbine Materials

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Multi-functional Smart Composites
Multi-functional Smart Composites
Multi-functional Nanocomposites
Nanocomposites
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Probabilistic Analysis,
Reliability and Design
Processing & Manufacturing Technologies
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Stability of Thin Walled Structures
Stimulus Responsive Polymer and Composites
Symposium
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Structural Health Monitoring
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<thead>
<tr>
<th>Topic</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Sustainable Composites</td>
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<td>Sustainable Composites</td>
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<tr>
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<td>Textile Technology for Composites</td>
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</tr>
<tr>
<td>Thermoplastic Composite Materials</td>
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<tr>
<td>Tribology of Polymer Composites</td>
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<tr>
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