

Smart	Sustainable Solutions			
			DAY 1 1st July 2019	
8h00			Registration	
9h00			Opening Session	
			Keynote Lecture	
		Mi	croscale natural fibers for large-scale nanotechnology	
9h30		La	ars Berglund, KTH Royal Institute of Technology Sweden	
			Chair: Raul Fangueiro	
		Room Infante	Room Miragaia	
	φ ID 8		ID 22	ID ¹
	Biode	sign - Dyeing Natural Fibres With	Yield Potential Of Hemp Cultivars	Inc
	O	Organiama Dantaria	(Connobio Sativa I.) For Toytile	C-

	Room Infante			Room Miragaia		Room S. João
10h15	al fibers & structures s Abreu	ID 8 Biodesign - Dyeing Natural Fibres With Living Organisms-Bacteria Sandra Heffernan, Massey University New Zealand	ıral fibers	Yield Potential Of Hemp Cultivars (Cannabis Sativa L.) For Textile Applications In Belgium Veronique Troch, University College Ghent Belgium	oers	ID 124 Incorporation Of Lipid Nanosystems Containing Omega-3 Fatty Acids In Textile Substrates For Wound Healing Applications Graça Soares, University of Minho Portugal
10h30	& characterization of natur Maria José Araújo Marque	ID 28 Uv Protection From Polyamide And Wool Fabrics Dyed With Teak Leaves Nivea Tais Vila, Universidade Estadual de Maringa Brazil	extile processing of natu	ID 161 Hemp Retting: Quality Management Of Hemp Straw Used In Agro-Materials Arnaud Day, Fibres Recherche Development France	on: Functional natural fil Chair: Greg Holt	Modified Cotton Textile With Hap-Agnps Nanocomposite Aiming Antimicrobial Properties For Medical Textile Gown Jefferson Souza, Federal University of Piauí Portugal
10h45	Session: Properties & Chair: Ma	Rapid Microwave Assisted Flame Retardant Treatment for Cotton Fabric by an Industrial Byproduct – Phytic Acid Ramaswamy Nagarajan, University of Massachusetts USA	bric by	Polyethylene Composites With Hemp Natural Fillers Szymon Rojewski, Institute of Natural Fibres & Medicinal Plants Poland	Sessic	Modification Of Spartium Junceum L. Fibers By Nanoparticles Sandra Bischof, University of Zagreb Croatia

Coffee-Break 11h00 & Poster Session

















11h30 Invited Leacture **Preparation and Applications of Cellulose Nanomaterials** Alain Dufresne, Université Grenoble Alpes | France 11h45 ID 271 nsional natural fibers Berglund **Electrospun Natural Nanofibres With Bioactive Plant Extracts For Therapeutic Applications** 12h00 Diana P. Ferreira, University of Minho | Nanodimensional Chair: Lars Berglu Portugal ID 218 **Genetically Engineered Protein-Based Polymers For The Development Of Antimicrobial Materials** 12h15 Margarida Pereira, CBMA - University of Minho | Portugal ID 187 **Effects Of Cellulose Nanofibrils On The** Structure And Properties Of Poly(Vinyl 12h30 **Alcohol) Electrospun Nanofibers**

Portugal

2

Andrea Zille, 2C2T - University of Minho |

ID 71

Effects Of Water Immersion Ageing On **Composites Made Of Non-Pre-Dried Flax Fibres**

Maria Morissa Lu, KU Leuven R&D | Belgium

ID 86

Natural Fibre Compostes Manufacture Using Wrapped Hemp Roving With PA12 Manuela Ferreira, ENSAIT/GEMTEX | France

ID 182

SSUCHI

Session:

Impact Of The Fibre Extraction Processing Steps Using A Labscale Scutching/Hackling Equipment On The **Mechanical And Morphological Properties** Of Hemp Fibres

Pierre Ouagne, Ecole Nationale d'Ingénieurs de Tarbes | France

ID 183

The Effect Of Silicone Coatings On The **Durability Of Natural Fibre Composites** When Subjected To Hygrothermal Aging Gilles Koolen, KU Leuven R&D | Belgium

ID 151

Study Of Solutions To Optimize The

ID 30

Influence Of Processing Method On The **Properties Of Paper-Fiber-Reinforced** Composites

Martina Prambauer, Transfercenter für Kunststofftechnik GmbH | Austria

ID 42

Effect Of Particulate Fillers On Creep Behavior Of Epoxy Composites

Vijay Baheti, Technical University of Liberec | Czech Republic

ID 47

Estimation Of Tensile Properties Of Flax Fibers Using Impregnated Fiber Bundle **Test: Influence Of Resin Cure Cycle** Anurag Pisupati, IMT Lille Douai | France

ID 51

ber based polymeric Mohammad Jawaid

Session: Natural fiber

Improvement Of Physico-Mechanical **Properties Of Particleboard Made From Bagasse And Peanut Shells Fibers** Zeinab Osman, Institute Engineering Research and Materials Technology | Sudan

ID 63

Are Nettle Fibres Produced On Metal-**Contaminated Lands Suitable For Composite Applications?**

Thomas Jeannin, FEMTO-ST | France















ID 216
 Multifunctional Bio-Hybrid
 Nanocomposites Using Silk/Elastin
 Copolymers
 Raul Machado, CBMA - University of Minho | Portugal

Extraction Of Hemp Fibers For Composite Materials
Marie Gregoire, Ecole Nationale d'Ingénieurs

de Tarbes | France

Effect Of Zeolite On Properties Of Rice Husk Flour- Polypropylene Composites Poonsub Threepopnatkul, Silpakorn University | Thailand

ID 70

13h00			Lunch		
14h00	ID 282 The Effect Of Silane Modification On The Performance Of Nanocellulose-Reinforced Adhesives For Composite Wood Panels Patrycja Hochmańska, Łukasiewicz Research Network-Wood Technology Institute Poland		ID 302 Effects Of Polyelectrolytes On Dyeing Of Cotton Fabric With Acid Dyes Miguel Granato, Universidade Federal de Santa Catarina Brazil	c composites	ID 101 Effect Of The Grid Spacing Of Fique Textiles On The Bending Behaviour Of Mortar/Fiber Laminates Patricia Luna, Universidad Nacional de Colombia Colombia
14h15	Preparation And Characterization Of Air Filtering Membranes Based On Pet, Castor Oil And Cellulose Nanocrystals: Electrospun Mats Rachel Passos de Oliveira Santos, University of São Paulo Brazil		Surface Modification And Structural Investigation Of Spiders Silk Through Non- Thermal Plasma Sources Nicola Stehling, University of Sheffield United Kingdom	itural fiber based polymeric Chair: Carlo Santulli	ID 37 Simulation Of The Morphology Changes Of Lignocellulosic Fibers During Twin-Screw Extrusion Of Composites With Petro/Biosourced Matrices Loubna Lemkhanter, INRA, France
14h30	Cellulose Nanofibril Films Treated With Tannin-Stabilized Silver Nanoparticles: Effect On Antimicrobial Properties Lina Bufalino, Federal Rural University of	n techniques Costa	Effect Of Xylanase Treatment On Retama Monosperma Fibers Duyeing Djamel Eddine Aizi, Laboratoire des Productions Valorisations Végétales et Microbiennes Algeria	Session: Natural fiber Chair:	Ultraviolet Light Treatment To Enhance Interfacial Adhesion In Bamboo Fibre Polymer Composites Carlos Fuentes, KU Leuven R&D Belgium
14h45	Biodegradable Films Reinforced With Cellulose Nanocrystals And Natural Extracts For Food Packaging Applications Sofia Costa, University of Minho Portugal	ıral fiber modification techniques Silgia Aparecida da Costa	Ontimizing Enzymatic Dyoing Of Wool And		ID 95 Acoustic Evaluation Of A Mycological Bio-Composite As A Natural Fiber Alternative

















15h00	Sessior	Plasma Pretreatment And Digital Ink Jet Technology: A Tool For Long-Lasting Microbial Barrier On Cellulose Knitwear? Sanja Ercegović Ražić, University of Zagreb Croatia	Session: Natu	ID 298 Influence Of Plasma Treatment On The Resulting Useful Properties Of Tapes Made Of Glass Fibers Karolína Voleská, Technical University of Liberec Czech Republic	Natural Fibers Initiative	To Petroleum Based Closed-Cell Foam Greg Holt, USDA-ARS USA
15h15		Facile Functionalization Of Cotton With Nanostructured Silver/Titania For Visible- Light Plasmonic Photocatalysis Marwa Abid, Faculty of Sciences of Sfax Tunisia		ID 130 Influence Of Physical Sputtering Plasma Treatment On The Tensile Strength Of Bamboo Fibers And Bamboo/Polyester Composites Patricia Luna, Universidad Nacional de Colombia Colombia	Session: DNFI - Discover Nati	Bast Fiber Circular Economy Malgorzata Zimniewska, Institute of Natural Fibres & Medicinal Plants Poland ID 154 Sustainable Solutions Need To Be Smarter Magdalena White, International Wool Textile Organisation Belgium
15h30		Development Of Shoe Insole With Natural Fibers Hafsa Jamshaid, National Textile University Pakistan		ID 94 Halogen Free Flame Retardant Finishing Of Wool And Wool Rich Fabrics For Aircraft Seats Elif Kaynak Uraz, Eskisehir Technical University Turkey		
15h45				Coffee-Break & Poster Session		
16h15		Fibre Area Correction Factors (Facf) For The Extended Rules-Of-Mixtures For Natural Fibre Reinforced Composites John Summerscales, University of Plymouth United Kingdom		The Influence Of Textile Materials On Flame Speed Tests Of Professional Uniforms Marcia Cristina Silva-Santos, University of Sao Paulo Brazil		Invited Leacture Cellulose innovations: from nanoscale to novel functions
		Aging Behaviour Of Poly(Lactic Acid) Bleached Softwood Kraft Cellulose (Bskp)		Optimum Conditions For Measuring Thermal Resistance On Thermal Foot		You-Lo Hsieh, University of California, Davis USA

Model

Abdelhamid R. R. Aboalasaad, Technical

University of Liberec | Czech Republic





cessing











16h30

Composite Containing Epoxy Modified

Lisa Wikström, VTT Technical Research

Linseed Oil As A Coupling Agent

Centre of Finland | Finland



ID 169 ID 93 ID 213 **Transverse Compressive Properties Of Noise Control Optimization In A Hemp Extraction And Evaluation Of Industrial-Natural Fibres Determined Using Micro Fibrous System** Waste Derived Cellulose For Novel of natural fibers 16h45 Mechatronics Systems And 2D Full-Field Valentina Mazzanti, Università degli Studi di **Bioapplications** Ferrara | Italy Rachel Cordeiro, Instituto Politécnico de Leiria Measurements Vincent Placet, FEMTO-ST | France | Portugal polymeric c n Vuure processing of na ir: Pirjo Heikkilä ID 248 Water Absorption And Effect Of Improvement Of The Wrinkling Behavior Of **Characterization Of Lignocellulosic** r based p Aart Van **Temperature On The Characteristics Of** A Cotton Shirting Fabric Using A Novel **Residues Of Linseed For Application In** 17h00 Flax/Hemp Reinforced Composites Measurement Method **Biomaterials** fiber Luciana G. Angelini, University of Pisa | Italy Opukuro David-West, University of Charles Lanceron, ENSAIT/GEMTEX | France Session: Textile Hertfordshire | United Kingdom Session: Natural processes for ID 96 ID 83 ID 269 Stabilization Of Hybrid Prepreg Composite Weavability Of Flax Fibre For 3D Warp Synthesis Of Cellulose Acetate Using As **Tapes For Industrial Applications** Interlock Preform: Effect Of The Weft **Raw Material Textile Wastes** Mohanapriya Venkataraman, Technical **Layers Number On The Physical And** Natália Cândido Homem, 2C2T - University of 17h15 University of Liberec | Czech Republic **Mechanical Properties Of The Preform** Minho | Portugal Ahmad Rashed Labanieh, ENSAIT I France ID 127 ID 274 ID 262 The Effect Of Thermal Treatment And **Nonwoven Of Posidonia Oceanica Fibers Using Computed Tomography To** As Substratum For Agriculture Microwave Curing To The Mechanical Characterize Manicaria Saccifera Natural 17h30 **Properties Of Flax Epoxy Composites** Maria Angeles Bonet-Aracil, Universitat **Fabric** Politècnica de València | Spain Chrysoula Saridaki, University of Patras | Alicia Porras, Universidad de los Andes | Greece Colombia ID 145 ID 171 ID 150 Influence Of Composite Architecture And **Textile Fibers Production Regarding The Thermal And Physical Characterization Of** Interfacial Bonding Strength On Their **Agroforestry Aproach Bleached Cellulose From Orange Bagasse** 17h45 **Impact Properties** Larissa Oliveira Duarte, University of Sao **Using Chlorine Free Method** Mahadev Bar, École Nationale D'ingénieurs Paulo I Brazil Paulo Fernandes, UNESP | Brazil de Tarbes | France 18h00 Closing Social Program - Porto 6 Bridges Cruise 18h30















9h30

DAY 2 | 2nd July 2019

Conference Announcements

Keynote Lecture

Processing and Applications of Biomimetic Spider Silk Thomas Scheibel, University of Bayreuth | Germany

Chair: Raul Fangueiro

		Room Infante		Room Miragaia		Room S. João
10h15	ppolymers	Multipurpose Hemp For Industrial Bioproducts And Biomass – "Mid- Performace" Bio-Based Composites Applications Jörg Müssig, Bremen City University of Applied Sciences Germany	le assessment studies	ID 92 Environmental Impact Of Cotton Fibre Production In Brazil Luis Almeida, University of Minho Portugal	ural fibers an	Natural Fibres In Next-To-Skin Textiles: Current Perspectives On Human Body Odour Raechel Laing, University of Otago New Zealand
10h30	Natural fiber reinforced biopolymers Chair: Pierre Ouagne	Laccase Enzyme Treatment For Improved Flax Fibre – Epoxy Adhesion In Composites	i on: Sustainability of natural fibers; life Chair: Vinay Midh	ID 48 Amazonian Tucum (Astrocaryum Chambira Burret) Leaflet Fiber And Artisanal Yarn Characterization Lais Pennas, University of Sao Paulo Brazil	Textile processing of natural air: Ramaswamy Nagarajan	ID 39 BODY ODOUR MANAGEMENT PERFORMANCE OF DIFFERENT FIBRES AND BLENDS Xungai Wang, Deakin University Australia
10h45	Session: Na	ID 172 A Material Proposed For Re-Use Of Hemp Shives As A Waste From Fiber Production Carlo Santulli, Università di Camerino Italy		ID 103 The Properties Of The Mesocarp Fibers Of Patauá, A Multiple-Use Palm From The Amazonia Forest Lina Bufalino, Federal Rural University of Amazonia Brazil	Session: T Chai	Simultaneous Dyeing And Flame Retardant Finishing Of Silk Fabric: An Ecofriendly Approach Goutam Bar, National Institute of Fashion Technology India
11h00				Coffee-Break & Poster Session		















ID 153 A Biosorbent Films Based On Nanocellulose And Lysozyme Nanofibers For Efficient Removal Of Mercury (II) From 11h30 **Natural Waters** Carmen Freire, University of Aveiro | Portugal ID 85 Impregnation Of Cellulose Fibers With **Charged Nanocellulose For Water Filters** 11h45 Andreas Mautner, University of Vienna | Austria ID 61 sional natural fibers າ Dufresne Effect Of Alternative Electric Field And **Elongational Flow On Control Of Cellulose** Nano Fibril 12h00 Hidemasa Takana, Tohoku University | Japan Session: Nanodimensional Chair: Alain Dufre ID 2 **Enhancement Of Nanocellulosic Films** Surface Properties By TiO2 Sol-Gel Coating Rajini Priya Malladi, University of Sherbrooke | 12h15 France ID 227 **Preparation Of Hydrophobic Nanocrystals** Of Vegetable Cellulose For The Retention 12h30 Of Oils Denise Abatti Kasper Silva, University of the

Joinville Region | Brazil

ID 273

Environmental And Socio-Economic Impact Assessment Of The Production Of Kenaf (Hibiscus Cannabinus L.) In Heavy **Metal Contaminated Soils**

Ana Luisa Fernando. Universidade Nova de Lisboa | Portugal

ID 13

Characterization Of Agave Americana L. Plant As Potential Source Of Fibres For **Composites Obtaining**

Zaida Ortega, Universidad de Las Palmas de Gran Canaria | Spain

ID 257

& structures

Sandra Bischof

characterization of Chair: Sandra Bisc

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Session: Properties

Dyeing Performance Of Brazilian Pineapple Leaf Fibers For Textile Application

Rayana Santiago De Queiroz, Institute for Technological Research | Brazil

ID 239

Natural Dyeing Of Cotton With Anadenanthera Macrocarpa (Benth)

Nivea Tais Vila, Universidade Estadual de Maringá | Brazil

ID 16

Dyeing Cotton With Dye Extracted From Fallopia Japonica Leaves

Marija Gorjanc, University of Ljubljana | Slovenia

Invited Lecture

Sustainable Development Of Transtibial Prostheses – Application Of Appropriate Technologies

António Margues, FEUP | Portugal

ID 180

composites

based |

Session: Natural fiber

Chair: António

The Effect Of The Flax Fibre Extraction **Method On Mechanical Properties Of The Composites Containing The Fibres** Wanda Różańska. Institute of Natural Fibres &

Medicinal Plants | Poland

ID 31

Accelerated Aging Versus Natural Aging Of Flax Fiber / Unsaturated Polyester Composites

Moussa Gomina, CNRS | France

ID 34

Fungal Degradation Of Flax Fibre Reinforced Composites Made Using Vegetable Oil Based Epoxy Resin

Arunjunai Raj Mahendran, Kompetenzzentrum Holz GmbH | Austria















ID 308

Synthesis And Characterization Of Lithium Experimental Analysis Of Clay Boards Needle Punching Machine At Laboratory Iron Phosphate Nanowires From Sago Pith Scale To Manufacturing Figue Fiber **Made With Coir** Cellulose Nanofibril Aerogel **Nonwovens** Daniela Cenci, University of Minho | Portugal 12h45 Jau Choy Lai, Universiti Teknologi Malaysia I Adriana Restrepo-Osorio, Universidad Malaysia Pontificia Bolivariana | Colombia 13h00 Lunch ID 164 Flax Cell Wall Ultrastructure Modifications **During Retting** Johnny Beaugrand, INRA | France 14h00 **Invited Leacture** Invited Leacture The use of lignocellulosic fibers in cement **Bacterial Nanocellulose: Last But Not The** based materials - challenges and Least achievements **ID 57** Miguel Gama, University of Minho | Portugal Holmer Savastano, University of São Paulo | **Modeling Draw Process Of Flax Fibers** Brazil Moussa Gomina, CNRS | France 14h15 properties and behavior ID 223 ID 144 ID 6 **Bacterial Cellulose Membrane With Measurement Of The Lenght Of Short** The Use Of Natural Fibers In Repairing And **Functional Properties** Animal Fibers: A Comparison Of Almeter Strengthening Of Cultural Heritage 14h30 Andreia Monteiro, Institute of Chemistry | And Classifiber Instruments **Buildings** structures Brazil German Escobar, INTI | Argentina Ali Abbass, University of Minho | Portugal ID 313 ID 208 e natural fibers 8 You-Lo Hsieh ling and prediction of hair: Patricia Marino Study Of The Common Reed Phragmite **Multilayer Bacterial Cellulose With Evaluating The Thermal Comfort Properties Confined Nanoparticle Distribution** Of Rize's Traditional Hemp Fabric Australis For A Valorisation In Soledad Roig, ICMAB-CSIC | Spain (Feretiko) Using A Thermal Manikin **Biocomposites And Building Materials** 14h45 fiber based o Maria José Araújo Marques Abreu, University Mathilde Honoré, Institut de Recherche Dupuy of Minho | Portugal de Lôme | France

ID 266







ID 240











15h00	Session: Inno C	Development Of Textile-Based Hydrogel Dressings Used In Burn Treatment Gizem Ceylan Türkoğlu, Dokuz Eylul University Turkey	Session: Analytics, model	ID 35 Improving Friction Yarn Qualities For Its Use In Foundation Garments – Part 3 Kanwar Varinder Singh, National Institute of Technology India	Session: Natural	Structural Sandwich Composites Out Of Wood-Foam Core And Textile Reinforced Concrete Sheets For Versatile And Sustainable Use In The Building Industry Frauke Bunzel, Fraunhofer Institute for Wood Research Germany
15h15		Fibers Of Cellulose Sugar Cane Bagasse With Bromelain Enzyme Immobilized To Application In Dressing Silgia Aparecida da Costa, São Paulo University Brazil	Se	ID299 Influence Of The Addition Of Nettle And Hemp Fibers To Cotton Based Yarns On The Moisture Management Properties Miguel Navarro, Universidade do Minho Portugal		ID 202 Characterization Of Coconut Fibers For Use As Reinforcement In Cement Matrix Composites Lina Bufalino, Federal Rural University of Amazonia, Brazil
15h30		ID 26 New Method To Produce Poly(Vinyl Alcohol)/Cellulose Acetate Films With Improved Antimicrobial Action Marta A. Teixeira, 2C2T - University of Minho Portugal		ID293 Superhydrophobic Cotton Fabrics Based On Zno Nanoparticles Functionalization Inês Boticas, University of Minho Portugal		ID 126 Investigation Of The Interfacial Bonding Between Natural Fibres And Various Cementitious Matrices In Mortar Composites Seyed Ghaffar, Brunel University London United Kingdom
15h45				Coffee-Break & Poster Session		
16h15		ID 5 Hybrid Fabrics For Use In Bio-Based Composites And Their Applications Jana Winkelmann, Fraunhofer WKI Germany		ID 3 Evaluation Of Injection Moulded Natural Fibre-Polyolefin For Potential In Automotive Applications James Thomason, University of Strathclyde United Kingdom		ID 46 Material Sorting Using Hyperspectral Imaging For Biocomposite Recycling Tuomas Sormunen, VTT Technical Research Centre of Finland Ltd Finland
16h30		Copy Paper As An Alternative Reinforcement For Biodegradable PLA And PBAT Composites Nina Graupner, Bremen City University of Applied Sciences Germany		2D Native Fibrous Vegetable Material As Reinforcement Of Textile Composites Materials Cristel Onesippe Potiron, Université des Antilles Guadeloupe (FWI)		ID 67 Absorption Properties Of Fabricated Film From Cotton Gin Trash Abu Naser Md Ahsanul Haque, Deakin University Australia

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16h45	ies	Main Criteria Of Sustainable Plant Fibre For Efficient Unidirectionnal Biocomposites Alain Bourmaud, University of South Brittany France	ric composites	Potential Use Of Leaf Fiber Of Azores' Pineapple In Reinforcement Of Composite Materials João Bessa, Fibrenamics Portugal	natural fibers & structur arques	ID 160 Fibrous Waste From The Crabwood (Carapa Guianensis) Seed: Morphological Potential For Exfoliating Purposes Driss Pena, University of Amapá State Brazil
17h00	Random Chopped Banana Fibe	Creating An All Natural Composite Using Random Chopped Banana Fibers And PLA William Jordan, Baylor University USA	Session: Natural fiber based polymeric Chair: Manuela Ferreira	Filler For Virgin And Recycled Polypropylene Bio-Composites	Properties & characterization of natural Chair: António Dinis Marques	ID 198 Assessment Of Hemp Based Sorbents For Industrial Spill Response John Wolodko, University of Alberta Canada
17h15	й	Transmission Loss Of Nap Cores Made With Cotton (Co) And Polylactic Acid (PLA) For Application In Lightweight Construction Franziska Stehle, Faserinstitut Bremen e.V. Germany	Session: Nat	ID 220 The Influence Of Hornification Of Luffa Fiber On The Water Absorption Of Polymeric Composites Diana Carolina Quinayá, PUC-RIO Brazil	Session: Properties &	Recycled Cotton Fibres In Technical And Clothing Applications Pirjo Heikkilä, VTT Technical Research Centre of Finland Ltd. Finland
17h30		Assessment Of Extended Retted Hemp Fibres For Composite Reinforcement: Fibre Properties And Adhesion With Polyactide Matrix Laetitia Marrot, InnoRenew Center of Excellence Slovenia		Hygrothermal Degradation Effects On A Rubber Toughened WPC Francesco Mollica, Università degli Studi di Ferrara Italy		ID 120 Greening Of Road Slope Reinforced With Wool Fibres Jan Broda, University of Bielsko-Biala Poland
17h45		ID 119 Influence of weft yarn diameter and weft yarn density of coir and jute geomeshes on soil erosion control Vinay Midha, Dr B R Ambedkar National Institute of Technology Jalandhar India		ID 286 Development Of Mainly 'Green' Sandwich Structure Cores Based On Modified Expanded Corkboard António Marques, FEUP Portugal		ID 265 Behavior Of Externally Strengthened Structural Elements By Local Natural Reinforced Composites Aladdin Sharkawi, Tanta University Egypt
18h00				Closing		
20h00				Social Program - Conference Dinner		

















DAY 3 | 3rd July 2019

9h00 Conference Announcements

Keynote Lecture

Functionality and Sustainability of Natural Fibre Materials

Xungai Wang, Deakin University | Australia

Chair: Raul Fangueiro

		Room Infante		Room Miragaia		Room S. João
10h15	structures	ID 188 Influence of ethanol post-treatments on the properties of silk protein materials Adriana Restrepo-Osorio, Universidad Pontificia Bolivariana Colombia	હ	ID272 In Situ Synthesis Of Cao And Sio2 Nanoparticles Onto Jute Fabrics: Exploring The Multifunctionalities Joana Araújo, Universidade do Minho Portugal	on natural fibers	Invited Leacture The Intrinsic Charecteristics and Idiosyncratic Application of Natural Coir Fibre Febi Varghese, Government of Kerala, India
10h30	Innovative natural fibres and s Chair: Adriana Restrepo	ID 283 Plantain Fibers Used As Immobilization Support Of Laccase For Dye Degradation Sara Lucia Mora Gordillo, Universidad Nacional de Colombia Colombia	Session: Functional natu Chair: Hidemasa Tak	Sustainable Natural Fiber Dyeings Luciano Pinheiro, University of São Paulo Brazil	fibrous structures based on the structure based on the structure based on the structure based on the structure based on the structures based on the structure based on the struc	
10h45	Session: Innov Ch	ID 267 Development And Characterization Of Chitosan/Mmtca++ Bionanocomposites Incorporated With Two Different Essential Oils Ana Luisa Fernando, Universidade Nova de Lisboa Portugal		ID 288 Study Of Fibre, Fabric Weight And Functional Finishes On Comfort Properties Of Woven Shirting Fabrics Awadhesh Choudhary, Nit Jalandhar India	Session : Advanced t	Strength Behaviour Of Cohesionless Soil Reinforced With Coconut Leaf- Let As A Natural Material Chandrakaran Sreedharan, National Institute of Technology India
11h00				Coffee-Break & Poster Session		















Invited Leacture

Conductive Carbon Microfibers Derived From Wet-Spun Lignin/Nanocellulose Hydrogels

Orlando J. Rojas, Aalto University | Finland

11h45

12h00

12h15

12h30

ID 139

Properties of ring,rotor and Dref-II spun conductive cotton yarn

Atin Chaudhuri, University of Calcutta | India

G Session: Functional natural fibers Chair: Diana Ferreira

ID 65

Electrical Properties Of Graphene-Treated Wool Knit

Sophie Wilson, University of Otago | New Zealand

ID 173

Silk Fibroin Proton Conducting Membranes Tomás Almeida. CICECO-Aveiro Institute of

Materials | Portugal

ID 152

Vinyl Acetate Modified Microfibrillated Lignocellulose And Application In Polylactic Acid Biocomposites

Ferhat Yetis, University of Manchester | United Kingdom

ID 162

Investigation Of Fermentation Residue Of Biogas Plants For The Production Of Sustainable Fibre Reinforced Composites Marion Lütz, German Institues of Textile and Fiber Research | Germany

ID 170

based polymeric composites

Session: Natural fiber

Alain Bourmaud

Development And Chatacyerization Of A Recycled PVC Filledcomposite With Eucalyptus Globulus Fibres

Diana Pais, INEGI | Portugal

ID 311

Preparation And Characterization Of A Novel Starch - Chestnut Husk Biocomposite

Pamela Castro, Pontificia Universidad Católica del Perú | Peru

ID 296

Lightwood: Innovative Wood And Polyurethane Based Composites Jorge Martins, Instituto Politécnico de Viseu | Portugal ID 108

Use Of Bamboo Mat As A Potential Soil Reinforcement Material- An Experimental Study

Chandrakaran Sreedharan, National Institute of Technology, India

ID 241

Homo Sustentabilis: Circular Economy And New Business Models In Fashion Industry António Marques, University of Minho | Portugal

ID 53

Homewear In Brazil: Evolution From 1976 To Present

Mariana Costa Laktim, University of Sao Paulo, Brazil

ID 100

processing of natural fibers :: Júlia Baruque

Textile

Session:

Natural Textile Fibers In Contemporary Brazilian Jewelery

Ivete Cattani, University of Sao Paulo | Brazil

ID 109

Cognitive System Engineering: Cocreation For Auxetic Garment Design

Kanwar Varinder Singh, National Institute of Technology | India

















ID 113

Development of moisture vapour permeable waterproof cotton fabric by coating with blend of natural Rubber and chloroprene Containing Ammonium Acetate

Debasish Das, University of Calcutta | India

114

Winding Filament Fabrication For Fibrous Structures In Architecture Hannah Arkell, KADK | Denmark ID59

State-Of-The-Art Test Equipment For Modern Materials

Andreas Giehl, Q-Lab Deutschland GmbH | Germany

13h00	Closing Cerimony
13h30	Lunch
14h30	Social Program - Walking Tour













Ecofibras Project: A Strategy To Improve Ecosystems Affected By Invasive Plant Species In Macaronesia

Luis Suárez, Universidad de Las Palmas de Gran Canaria | Spain

ID19

Panorama Of Natural Fibers Aplied In Footwear: Materials And Brazilian Market

Lais Kohan, University of Sao Paulo | Brazil

ID21

Composite Nonwovens With The Addition Of Keratin Fibers Produced By The Spun-Bonded Method

Ewa Wesołowska, Institute of Biopolymers and Chemical Fibres | Poland

ID44

Bioethanol 2Nd Generation From Hemp Biomass

Weronika Gieparda, Institute of Natural Fibres & Medicinal Plants | Poland

ID45

Halophyte Biomass For 2Nd Generation Biofuels

Weronika Gieparda, Institute of Natural Fibres & Medicinal Plants | Poland

ID40

Poster Session | 11h00 - 11h30

Contribution To The Reduction Of Poverty In The Lac Region Through The Sericulture With Sustainable And Added Approach To Local Value Project Europeaid/150248/Dh/Act/Alc

Patricia Marino, INTI | Argentina

ID52

Influence Of The Granulometry Of Palm Fibers On Sorption Of Diesel Oil In Palm Fibers

Daniella Mulinari, Universidade do Estado do Rio de Janeiro | Brazil

ID56

Effect Of Chemical Treatments On Salt-Fog Aging Resistance Of Natural Fiber Composites

Vincenzo Fiore, University of Palermo | Italy

ID64

Effect Of Dispersion Parameters On The Efficacy Of Micro Crystalline Cellulose Dispersion

Aloysio Souza Filho, Universidade Tecnológica Federal do Paraná - UTFPR |

ID68

Silanization Of Flax Rovings For Prepregs Application

Szymon Rojewski, Institute of Natural Fibres & Medicinal Plants | Poland

ID75

Avocado Fruit Extract And Zinc For Uv Protective Cotton

Anja Verbič, University of Ljubljana | Slovenia

ID84

Reutilization Of Natural Fibers: Social Activity In The Cerrado Mineiro

Rita De Castro Engler, rita.engler@gmail.com | Brazil

ID89

Composites Of Banano Fiber With Polyurethane Rubber Resin: Thermal Transmission Properties

German Escobar, INTI | Argentina

ID104

Dynamic Mechanical And Morphological Analysis Of Untreated And Atmospheric Plasma Treated Coconut Fiber Reinforced Polyester Biocomposites

Daniel Magalhães De Oliveira, Sao Paulo State University | Brazil

ID125

Mechanical Properties Of Coffee Grounds Reinforcing Recycled Polypropylene Biocomposite

Anne Shayene Campos De Bomfim, São Paulo State University (UNESP) | Brazil

ID140

Poster Session | 15h45 - 16h15

Study Of Intrinsic Properties Of Natural Flours: Relationship With Water Absorption Properties Of Composites

Florent Faure, Université de Bretagne Sud | France

ID146

Textile Design As An Innovation Tool For The Sustainable Development Of Llama Fiber Products In Argentina

German Escobar, INTI | Argentina

ID148

Silk Fibroin Fiber Mats Produced By Solution Blow Spinning

Tomás Almeida, CICECO-Aveiro Institute of Materials | Portugal

ID155

Creep Of Pla-Based Green Composites Under Uv Irradiation

Marco Morreale, Kore University of Enna | Italy

ID176

Development Of The Microbioinspired Method (Mbi) For The Creation Of Projects With Sustainable Practices Using Microorganisms

Breno Abreu, University of Brasília | Brazil

DAY 2 | 2nd July 2019

ID184

Application Of Ethnical Patterns For Modern Sustainable Fashion Design

Anda Ščerbaka, Riga Technical University | Latvia

D185

Preparation Of Jute Fiber-Reinforced Polylactide / Lignin-Based Polyurethane Composites

Jongshin Park, Seoul National University | Republic of Korea

ID200

Potentialities Of Electrospun Mats Based On Pva/Ca For Applications As Chronic Wound Dressings

Marta A. Teixeira, 2C2T - University of Minho | Portugal

ID201

Comparative Analysis Of Properties Of Different Varieties Of Flax Fiber From Composite Application View Point

Wanda Różańska, Institute of Natural Fibres & Medicinal Plants | Poland

Possibility Of Using Energy Cultures For Fiber Production

Tajana Krička, University of Zagreb - Faculty of Agriculture | Croatia

The Use Of Natural Fibers As Strengthening Materials In Civil Engineering: State Of Art

Rosamaria Codispoti, University of Calabria | Italy

Morphology And Mechanical Properties Of Pbat Composites Reinforced By Lignin

Hanieh Kargarzadeh, Center of Molecular and Macromolecular Studies, Polish Academy of Sciences | Poland

Effect Of Composition And Accelerated Aging On The Composites Of Castor Oil Based Polyurethanes (Pu) With Peach Palm **Fibers Woven**

Denise Abatti Kasper Silva, University of the Joinville Region | Brazil

Influence Of Treatment Conditions On The Ag2Se Coated Natural Fibres Electrical Conductivity

Daiva Milasiene, Kaunas University of Technology | Lithuania

Investigation Of Possibilities Of Natural Fibre Surface Modification With Copper Selenide

Olga Belukhina, Kaunas University of Technology | Lithuania

The Effect Of Layered Silicate Nanofiller On The Mechanical And Barrier Properties Of Polypropylene Based Composites, Reinforced With Lignocellulosic Fillers

Remo Merijs-Meri, Institute of Polymer Materials, Faculty of Materials Sciences and Applied Chemistry | Latvia

Use Of Agave Potatorum Zucc. Fibers As Reinforcement Of Thermoplastic Corn Starch

Alicia Reyes Samilpa, Instituto Politécnico Nacional | México

Structure And Mechanical Properties Of Polypropylene Based Composites, Reinforced With Lignocellulosic Fillers From **Agricultural Waste**

Jānis Zicāns, Institute of Polymer Materials, Faculty of Materials Sciences and Applied Chemistry | Latvia

Evaluation Of Wool Quality Parameters Of Polish Sheep Breeds

Malgorzata Zimniewska, Institute of Natural Fibres & Medicinal Plants | Poland

ID242

Thermal Treatment Of Eucalyptus Fibers For Production Of Cement Composites: Chemical And Morphological Characterization Of The Fibers

Lourival Mendes, Universidade Federal de Lavras | Brazil

Poster Session | 15h45 - 16h15

Challenges On Specific Surface Area Analysis Of Cellulosic Materials

Anett Kondor, Surface Measurement Systems | United Kingdom

Production Of Briquettes From Wild Cane (Gynerium Sagittatum) Residue

Alexandre De Moraes, Federal Institute of Education, Science and Technology of Bahia (IFBA) | Brazil

Effect Of Chemical Treatment Of Açaí And Curauá Fibers

Denise Abatti Kasper Silva, University of the Joinville Region | Brazil

ID263

Brazilian Potential For Circular Fashion Through Strengthening Local Production

Leticia Galatti, University of Sao Paulo | Brazil ID264

Biomimetics In Textile Design Structures

Amine Haj Taieb, ISAMS | Tunisie

Nature-Based Materials To Develop Sustainable Food Packaging

Carolina Delgado, CIAUD - Research Centre for Architecture, Urbanism and Design | Portugal

DAY 3 | 3rd July 2019

ID277

Development Of Chitosan-Gelatin Nanofibers With Cellulose Nanocrystals For Wound Dressing Applications

Ana Sofia Ribeiro, University of Minho | Portugal

Smart Natural Fibres Based On Graphene Nanoplatelets And Biodegradable Polymers

Pedro Pereira, University of Minho | Portugal

ID281

Smart Green Composites Reinforced With Carbon Nanotubes And Graphene Nanoplatelets

Iury Korting De Abreu, Universidade do Minho | Portugal

Applications Of Nanocellulose: Review And Future Perspectives

Diana Dias, Fibrenamics | Portugal

Conception And Characterization Of Different Properties From A Composite Thermoformable With Polymeric Matrix And Cellulosic Fibres

Jorge Teixeira, Sonae Indústria de Revestimentos, SA | Portugal

ID292

Mechanical Performance Of Azorean Cryptomeria Wood Waste As Reinforcement Of Ecocomposites

João Bessa, Fibrenamics | Portugal

Biodegradability Index Determination Of Thermoplastic Composites Reinforced With Kraft Paper

Fernando Leite. Fibrenamics I Portugal

Session | 11h00 - 11h30

ID297

Hierarchical Cementitious Composites Developed By Sisal Fibers And Micro Crystalline Cellulose (Mcc) As Reinforcements Aloysio Souza Filho, Universidade Tecnológica Federal do Paraná - UTFPR | Portugal

ID301

Influence Of The Addition Of Fibers In Different Phases Of The Spinning Process On The Behaviour Of Cotton Blended Yarns Vânia Pais, Centre for textile Science and Technology (2C2T), University of Minho | Portugal

Mechanical And Colorimetric Properties Of 100% Fabric Cotton Dyed With Reactive Dye Using Seawater Bath Miguel Granato, Universidade Federal de Santa Catarina | Brazil

Impact Behaviour of Hybrid Carbon/Flax Fiber Reinforced Composites Rui Magalhães, University of Minho | Portugal