



## POSTER PROGRAM – DAY 1

ID	TITLE	AUTHOR	ORGANIZATION	COUNTRY
18	DOG FIBRE CHARACTERIZATION IN BRAZIL: PROPOSAL FOR TEXTILE YARN PRODUCTION	Lia Coelho	Rural Federal University of Rio de Janeiro	Brazil
19	COLOR PATTERNS OF BRAZILIAN CASHMERE FIBER	Lia Coelho	Rural Federal University of Rio de Janeiro	Brazil
37	HEMP FIBERS MODIFICATION BY SOL-GEL METHOD FOR POLYOLEFIN COMPOSITE FILLING	Zane Zelca	Riga Technical University	Latvia
48	CASHEW TREE FIBERS CHEMICAL MODIFIED WITH CASHEW NUT SHELL LIQUID	Adriano Mattos	Embrapa	Brazil
54	BURITI ( <i>Mauritia flexuosa</i> Mart.) FIBERS: STUDY OF IMPREGNATION WITH RESINS	Ivete Maria Cattani	University of Sao Paulo	Brazil
60	ANALYSIS OF THE PERFORMANCE OF VIRGIN AND RECYCLED NATURAL FIBRES FOR TECHNICAL NONWOVEN APPLICATIONS	Patricia Dolez	CTT Group	Canada
56	ENVIRONMENTAL ASSESMENT OF THE OBTAINING PROCESSES OF CELLULOSE NANOCRYSTALS FROM PALM FIBERS	Kílvia Alves	Federal University of Ceará	Brazil
62	BRAZILIAN SILK PRODUCTION: ECONOMIC AND SUSTAINABILITY ASPECTS	Alessandra Maria Giacomini	University of São Paulo	Brazil
71	PRELIMINARY STUDY ON CEMENT-BASED MIXES WITH PARTIAL WOOD ASH REPLACEMENT	Awwad Elie	Lebanese University, Department of Civil Engineering	Lebanon
85	NATURAL FIBERS RECYCLING IN BRAZIL: CONSIDERATIONS CONCERNING THE CIRCULAR ECONOMY	Mariana Amaral	University of Sao Paulo	Brazil
106	PRELIMINARY STUDIES OF CONTROLLED RELEASE OF AMMONIUM SULFATE COATED WITH LIGNIN-BASED POLYURETHANES	Francisco Sobrinho	Federal University of Ceara	Brazil
116	PROBING THE HYDROPHILICITY OF COIR FIBRES: ANALYSIS OF THE MECHANICAL PROPERTIES OF SINGLE COIR FIBRES	K L Goh	Newcastle University	United Kingdom
113	BRAZILIAN NATURAL FIBERS FOR THE CONSTRUCTION INDUSTRY	Nelida Lucia del Mastro	Institute of Energy and Nuclear Research	Brazil
127	OXIDATION OF BACTERIAL CELLULOSE FILMS FOR IMMOBILIZATION OF PROTEOLYTIC ENZYMES	Niédja Gurgel	Federal University of Ceará	Brazil
121	RESOURCE EFFICIENT TEXTILE FUNCTIONALISATION FOR TECHNICAL APPLICATIONS	Esther Rohleder	Research Institute for Textile and Clothing	Germany
128	LIFE CYCLE ASSESSMENT OF BIOCOMPOSITES FILMS	Ana Claudia Braid	Federal Institute of Ceará	Brazil
129	NANOCRYSTALS FROM BACTERIAL CELLULOSE PRODUCED IN CASHEW JUICE	José Aurélio Pinheiro	State University of Ceará	Brazil
131	BIOPOLYMERS IN MEDICAL IMPLANTS: A BRIEF REVIEW	Rita Rebelo	Universidade do Minho	Portugal
130	ENVIRONMENTAL EVALUATION OF THE EXTRACTION OF BACTERIAL CELLULOSE NANOCRYSTALS PRODUCED IN CASHEW JUICE	José Aurélio Pinheiro	State University of Ceará	Brazil
133	HYDROLYSED SOY MOLASSES AS NUTRIENT SOURCE FOR BACTERIAL CELLULOSE PRODUCTION	Bruna Santana Chagas	Federal University of Ceará	Brazil
209	Study of the felting tendency of Argentine Llama fibers	Santiago Sararegui	National Institute of Industrial Technology	Argentina
134	EVALUATION OF THE POTENTIAL OF CASHEW PERMEATE AS CULTURE MEDIUM FOR BACTERIAL CELLULOSE PRODUCTION	Matheus Barros	Federal Institute of Ceará	Brazil
104	STUDY OF REUSE AND RECYCLING ACTIVITIES IN THE METROPOLITAN REGION OF RIO DE JANEIRO	Welton Fernando Zonatti	Federal Institute of of Rio de Janeiro	Brazil
183	PROPERTIES OF DIFFERENT CHEMICALLY TREATED WOVEN HEMP FABRIC REINFORCED BIO-COMPOSITES	Arunjunai raj Mahendran	Kompetenzzentrum Holz GmbH	Austria

## POSTER PROGRAM – DAY 2

ID	TITLE	AUTHOR	ORGANIZATION	COUNTRY
142	obtaining and preliminary characterization of hydroxiapatita from waste floods from the benefit of nile tilapia ( <i>oreochromis niloticus</i> )	Edla Freire de Melo	Federal University of Ceará	<b>Brazil</b>
161	characterization chemical of pineapple crown and peel fibres	Paulo Henrique Pereira	UNESP	<b>Brazil</b>
158	oxo- degradable and biodegradable polymers blend for wound dressing pad manufacturing	Medhat Lotfy Tawfic	National research centre	<b>Egypt</b>
162	all-starch films from mango seeds	Henriette Azeredo	Embrapa Tropical Agroindustry	<b>Brazil</b>
165	oil palm mesocarp fibers pulping optimization by response surface methodology	Henriette Azeredo	Embrapa Tropical Agroindustry	<b>Brazil</b>
92	cellulose viscosity and water absorption of nanofibrils films	Mário Scatolino	Universidade Federal de Lavras	<b>Brazil</b>
172	evaluation of dehairing process of llama fiber and its effect on length and diameter distribution	Santiago Saralegui	National Institute of Industrial Technology, Textile Research and Development Centre	<b>Argentina</b>
195	influence of coupling agent on the properties of polypropylene composites reinforced with palm fibers	DANIELLA MULINARI	São Paulo State University	<b>Brazil</b>
196	surface treatment of pinus elliottii fiber and its application in composite materials for reinforcement of polyurethane	DANIELLA MULINARI	São Paulo State University	<b>Brazil</b>
207	characterisation and prognosis of the capillary rise of fluids in textile structures, exemplified by wicking of sunflower oil into cotton nonwovens	Tobias Maschler	Centre for Management Research	<b>Germany</b>
220	stem thickness and fibre content of selected hemp ( <i>cannabis sativa</i> L.) varieties	Marie Bjelková	Agritec Plant Research	<b>Czech Republic</b>
45	physical properties of eco-friendly kenaf fiber imbedded nonwoven for automotive pillar trim	Seung Jin Kim	Department of Textile Engineering Yeungnam University	<b>South Korea</b>
135	tempo oxidation and high speed blending as a combined approach to disassemble bacterial cellulose	Eligenes do Nascimento	Federal University of Ceará	<b>Brazil</b>
240	functionalization with sericin on textile substrate for evaluation of dye properties	Kesia Silva	Federal University of Rio Grande do Norte	<b>Brazil</b>
298	liposomal powders of natural bio active molecules with nano fibers from nature – the preparation, characterisation and the applications	Sreeraj Gopi	MG University	<b>India</b>
109	characteristics of chondroitin sulphate (sc) extracted from bone wastes (spine) of tilapia ( <i>oreochromis niloticus</i> ) processing	Bartolomeu Souza	Federal University of Ceará (UFC)	<b>Brazil</b>
83	influence of microcrystalline cellulose on workability and mechanical performance of cementitious composites	Shama Parveen	University of Minho, Guimarães	<b>Portugal</b>
261	physical properties of alginate/pva and chitosan/pva films reinforced with cellulose nanoparticles obtained from agave fibers	Martha Quetzalli Marin Bustamante	IPN-ENCB	<b>Mexico</b>
216	flax, hemp and kenaf fibres for the needs of composites reinforcement	Wanda Konczewicz	Institute of Natural Fibres & Medicinal Plants	<b>Poland</b>
245	comparison of the screw withdrawal strength between coir, peach palm and hybrid coir/peach palm agglomerates	José Moraes d'Almeida	Pontifical Catholic University of Rio de Janeiro	<b>Brazil</b>
249	recent advances on the functionalization of natural fibres for biocomposite development	Juliana Cruz	University of Minho	<b>Portugal</b>
221	LCA of innovative functional clothing based on natural fibres with ability to support skin diseases treatment	Barbara Romanowska	Institute of Natural Fibres & Medicinal Plants	<b>Poland</b>
276	flow properties of flaxepoxy composite modified system	Aitor Hernandez Michelena	Plymouth University	<b>United Kingdom</b>
288	a new generation of composite materials with natural fibres: a brief review on surface treatments	João Bessa	University of Minho	<b>Portugal</b>
237	characterization and potential application of the calotropis procera fiber	Anaxmandro Silva	Federal University of Rio Grande do Norte	<b>Brazil</b>
253	synthesis and characterization of micro/ nanocapsules of andiroba	Anaxmandro Silva	Federal University of Rio Grande do Norte	<b>Brazil</b>