



23 – 26 JULY 2018, LEEDS, UK: INTEGRATING DESIGN WITH SUSTAINABLE TECHNOLOGY





# **CONTENTS**

World President's Welcome	4
Conference Welcome	5
Sponsors	6
Media Partners	7
Programme	8
Conference Poster List	14
Social Programme	18
Map	19
Notes	22

# **CONFERENCE ORGANISERS**





# **WORLD PRESIDENT'S WELCOME**

As world President of The Textile Institute I welcome you to The 91<sup>st</sup> World Conference (TIWC) 2018, which this year is being hosted by the School of Design at the University of Leeds.

"Integrating Design with Sustainable Technology" it's a subject matter that fascinates me, and will be integral to the future of our businesses.

The theme has evolved out of a recognition that there are clear synergies when design and sustainable technology are effectively integrated to produce commercial solutions for better aesthetics and functionality.

The Textile Institute represents the bringing together of researchers, engineers and practitioners in the field of fashion and textile and endorses future developments and exploration to ensure that all promising theories and original research are fully realised and are applied.

This is our opportunity to have better conversations on a global level, network and share knowledge. Seek out new partnerships and develop friendships and collaborations.

I'm looking forward to meeting members old and new from around the world and experiencing my first World conference.

Wishing you all an incredible and successful conference and looking forward to meeting you,

Katie Greenyer

World President
The Textile Institute

Gunnigk.

# THE TEXTILE INSTITUTE WORLD CONFERENCE 2018 SCHOOL OF DESIGN, UNIVERSITY OF LEEDS

### **WELCOME!**

It is a great honour to be hosting The 91st Textile Institute World Conference and we hope that your time at Leeds will be educational, illuminating and fun.

The conference provides an opportunity to meet up with old friends, make new friends and discuss "textiles" in its broadest sense. Our industry is one of the great global economic powerhouses which embraces the best in design, technology and business management. These combined facets within the final products bring a diversity of thought and expertise that successfully engages the consumer and creates jobs and wealth across the globe.

We are here at Leeds this week to celebrate that latest thinking within textiles and to listen and talk to people who shape our industry. Like the industry Textiles at Leeds has always looked to refresh itself and evolve and over the past few years the School of Design has invested in new facilities. Hopefully you will be encouraged by the changes and reassured that the long tradition of textiles education and research at Leeds is still thriving. Our alumni is global and we look to be as relevant today as we were over 100 years ago.

In conclusion welcome once again to The Textile Institute World Conference, the University of Leeds and enjoy the "Textiles" experience at the School of Design. All the best.

Regards,

Chris Carr

Conference Chairman

C. M. Carr

# **SPONSORS**

Thank you to all of our sponsors who have made this year's conference possible.

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# **MEDIA PARTNERS**

## **COMMITTEE**

### **Asian Textile Journal**



# textiles









#### Conference Chair:

Prof Chris Carr, University of Leeds:

### **Organising Committee:**

Dr Vien Cheung, University of Leeds; Dr Ningtao Mao, University of Leeds; Dr Peter Rhodes, University of Leeds: Prof Steve Russell, University of Leeds; Jianzhong Shao, Zhejiang Sci-Tech University, China; Dr Mark Sumner, University of Leeds.

#### The TI Events Committee:

Prof Subhash Anand MBE, University of Bolton, UK Bill Bohm, The Textile Institute, UK Dr Xiaogang Chen, University of Manchester, UK Charlotte Haggarty. The Textile Institute, UK Prof Mervyn Davies, The Textile Institute, UK Stephanie Dick, The Textile Institute, UK **Prof Derek McKelvey.** The Textile Institute, UK **Prof Xungai Wang**, Australian Future Fibres Research and Innovation Centre, Australia Assoc Prof. Malgorzata Zimniewska, Institute of Natural Fibres & Medicinal Plants, Poland

### **Programme Committee:**

Dr Richard Blackburn. University of Leeds. UK: **Prof Tom Cassidy**, University of Leeds, UK; Tilak Dias, Nottingham Trent University, UK; David Farrar, Xiros, UK; **Hugh Gong**. University of Manchester, UK: Prof Parik Goswami, University of Huddersfield, UK; **Prof Michael Hann**, University of Leeds, UK; Amanda McLaren, James Heal Ltd., UK; Brian McCarthy, Knowledge Transfer Network, UK; Prof Steve Russell, University of Leeds, UK: Dr Pammi Sinha, University of Leeds. UK: Dr Jane Scott, University of Leeds, UK; Dr Muhammad Tausif, University of Leeds, UK; Dr Lindsey Waterton Taylor, University of Leeds, UK;

Tuesday 24 Jul	ly		
08:00	Registration - Parkinson Court		
09:00 - 09:15	Welcome Prof. Chris Carr, University of Leeds - Great Hall		
09:15 - 09:45	Conference Opening: Katie Greenyer, Pentland, The Textile Institute World President, Future		
	proofing our Textile Institute - Great Hall		
09:45- 10:15	Keynote Prof. Jintu Fan, Cornell University, Recent Advances In Smart and Multi-Functional Fibrous		
	Materials and Clothing - Great Hall		
10:15 - 10:45	Keynote Nick Chiarelli, Foresight Factory, Integra	ting design with sustainable technology - Great	
	Hall		
10:45 - 11:15	Break - Parkinson Court		
	Parallel	Session 1	
	Innovations For Natural Fibres MS.LG 10	Functional Textiles MS.LG 15	
	158. Factors affecting the durability of lightweight	313. Development of an active compression system	
	merino activewear fabrics	for treating the venous disease in lower human limb	
	Dr. Stewart Collie, AgResearch, New Zealand	Gayani Nandasiri, Nottingham Trent University, UK	
	145. Engineered Material from Natural Fibre for	296. Self-assembled Reduced Graphene / Few-Walled	
	Interior Design Applications	Carbon Nanotube Hybrid Fibers as Binder-free	
	Dr. Abu Sayem, Manchester Metropolitan University,	Electrodes for Flexible Supercapacitors	
	UK	Dr. Yunming Jia, Zhejiang Sci-Tech University, China	
	329. Retting Parameters and Textile Properties of	426. New generation of functionalized textiles: to	
	Brassica napus Fibre Ikra Shuvo, University of Manitoba, Canada	protect and enhance human capabilities Ana Carreira, Devan Chemicals, Belgium	
	Technical Textiles MS.LG 17	Design, Fashion and Retail MS.LG 19	
11:15 - 12:30	SK*. High Value Manufacturing with	SK. Textiles in Transition: Are you Ready for Industry	
	Textiles, crimped or non-crimped	4.0?	
	Prof. Prasad Potluri, University of Manchester, UK	Prof. Omera Khan, University of London, UK	
	290. Blue Light Induced High-performance Flame-	381. Eco-system services and the circular economy for	
	retardant Finishing for Cotton Fabric	textiles	
	Guangdong Sun, Zhejiang Sci-Tech University, China	Dr. David Tyler, Manchester Metropolitan University,	
		UK	
	161. Sustainable Fashion Textiles Research on	288. Exploring secured traceability systems for	
	Innovative 3D Spacer Fabrics Comprising Shape	implementation in textile and clothing supply chain	
	Memory Alloy Wire for Pressure Reduction and	Tarun Agrawal, University of Boras, Sweden	
	Redistribution		
	Shuk-Fan Tong , Hong Kong Polytechnic University, Hong Kong		
12:30 - 13:30	Lunch & Conference Exhibition - Parkinson Court		
13:30 - 14:00	Peter Dinsdale Memorial Lecture, David Mallinso		
	department store - Rupert Beckett Lecture Theati	_	
	Parallel	Session 2	
	Innovations for Natural Fibres MS.LG 10	Functional Textiles MS.LG 15	
	392. A new generation of textile fibre from canola	303. The influence of structural variation for resistance	
	biomass and the impact of cultivar on fibre quality	of conductive knitted fabrics	
	Ikra Shuvo, University of Manitoba, Canada	Dr. Su Liu, Donghua University, China	
	353. Efficacy Of Anti-Perspiration Finish Using Eco-	264. Optical sensing textile yarn for wearable	
	Friendly Herbal Extracts On Silk Filaments	electronics	
14:00 - 15:30	Felicia Sunil, The Gandhigram Rural Institute -	Achala Satharasinghe, Nottingham Trent University,	
14.00 - 13.30	Deemed University, India 422. An innovative cellulosic fibers- typha	UK 47. Smart Diaper for Healthcare Management	
	domingensis naturally growing on swampy lands	Dr. Chi-Leung Patrick Hui, The Hong Kong Polytechnic	
	Dr. Ritu Pandey, Chandra Shekhar Azad University of	University, Hong Kong	
	Agriculture & Technology, India		
	222. Biobased compostable gloves from sustainable	291. Changing our ways: exploring leno weave as a	
	material and prediction of their thermal properties	tool to understand erosion	
	Muhammad Maqsood, Maastricht University,	Nicola Redmore, University of Huddersfield, UK	
	Netherlands		
		Nicola Redmore, University of Huddersfield, UK	

Tuesday 24 Jul	lv .	
rucsuay 24 Jul	Technical Textiles MS.LG 17	Design Fashion and Retail MS.LG 19
	162. Evaluation of Thermal Properties of Functional	SK. Apparel Co-design Based on the Sensory
	Garment for Orthopedic Bracing Treatment	Requirements of the Consumers
	Dr. Joanne Yip, Hong Kong Polytechnic University, Hong Kong	Prof. Yan Chen, Soochow University, China
	349. Optimization of fabric structure for favourable	187. Programming Biomimetic Knitwear Using
	effect of shear thickening fluid impregnation on	Botanical Models of Differential Growth
	impact resistance performance	Dr. Jane Scott, University of Leeds, UK
	Sanchi Arora, Indian Institute of Technology, Delhi,	
	India  164. Artificial blood vessel using silk nanofibers	440. Case study on new products and materials from
	Dr. Yoshihiro Yamashita, Osaka Seikei College, Japan	textile recycling and reuse
		Regis Puppim, University of Minho, Portugal
	62. Development of Regenerated Silk Fibres and	59. Comparative study of calculated and actual
	Textiles for Medical Device Applications	dimensions in shaped weft knitwear
	Dr. Chris Agboh, Xiros, UK	Prof. Jess Power, Staffordshire University, UK
15:30 - 16:00	Break - Parkinson Court	Dr. Kevin Almond, University of Leeds, UK
15.50 10.00		Session 3
	Innovations for Natural Fibres MS.LG 10	Functional Textiles MS.LG 15
	110. Investigation of bark cloth for its surface texture	312. Wearable Technology: Present and Future
	and durability for apparel applications	Sophie Wilson, University of Otago, New Zealand
	Dr. Praburaj Venkataraman, Manchester	
	Metropolitan University, UK  433. Eco Friendly Coloration of Polyester Fabric	260. Novel techniques to analyse the water vapor
	Using Green Synthesis of Silver Nano Particle	permeability of car seat
	K. M. Faridul Hasan, Wuhan Textile University, China	Adnan Mazari, Technical University of Liberec, Czech
		Republic
	155. Card aerodynamics - detailing the design of the	88. Fabrication and characterization of exfoliated
	new possibilities	chitosan-gelatin- montmorillonite
	Dr. Debasish Banerjee, Blackstone Synergy	nanocomposite nanofibers
	Consulting Group Limited, Kenya	Dr. Sima Habibi, Islamic Azad University, Iran
	Technical Textiles 1 MS.LG 17	Technical Textiles 2 MS.LG 16
	191. Textiles in connective tissue repair; a review of laboratory and in vivo data over the past three	404. Synthesis of electrospun composite nanofibres doped with stimuli-responsive molecular switches for
	decades	designing advanced sustainable smart textiles for
	Dr. Bahaa Seedhom, Xiros, UK	conventional and high-tech applications
16:00 - 17:15		Dr. Shah Billah, University of Durham, UK
	50. Textile technical integration of shape memory	160. Finite Element Approach for Modelling Non-
	alloys into reinforcing fabrics for the development of adaptive pleated fiber-reinforced plastics	Invasive Flexible Orthopaedic Device on Scoliotic Patient
	Moniruddoza Ashir, Technische Universität Dresden,	Wing-Yu Chan, Hong Kong Polytechnic University,
	Germany	Hong Kong
	177. Tubular braids with tuneable Poisson's ratio	126. Challenges arising from test methods for foot
	Ning Jiang, Hong Kong Polytechnic University, Hong	coverings
	Nong  Design Fashion and Retail MS.LG 19	Prof. Raechel Laing, University of Otago, New Zealand
	SK. The role of CTES in promoting the commercial	
	and technical global strategy for the Chinese Textile	
	industry	
	Fu Guangwei, China Textile Engineering Society,	
	China 373. Developing creative industries in Sri Lanka: The	
	case of hand loom textiles	
	Carolyn Downs, Lancaster University, UK	
	218. The development of methodologies for	
	designers engaging with digital colour inkjet printing	
	in textile design	
17:30 - 19:30	Becky Gooby, University of the West of England, UK  Poster Session, Light Buffet and Refreshments -	Parkinson Court
_, 25.00		

Wednesday 25 July				
08:00	Registration - Parkinson Court			
09:00 - 09:30	Keynote Prof. John Xin, Hong Kong Polytechnic University, Development of Bionic Structural Colors			
	for Sustainable Textile Applications - Rupert Beckett Lecture Theatre			
09:30 - 10:00	<b>Keynote Prof. David Hinks, North Carolina State University, Catalyzing a Resurgent Textiles Industry</b>			
	via Community College - Industry - University Partnerships - Rupert Beckett Lecture Theatre			
10:00 - 10:30	Keynote Prof. Behnam Pourdeyhimi, North Carolina State University, Nonwovens, the Other			
	Textiles? Past, Current and Future Opportunities - Rupert Beckett Lecture Theatre			
10:30 - 11:00	Break - Parkinson Court	·		
	Parallel	Session 4		
	Innovations for Natural Fibres MS.LG 10	Functional Textiles 1 MS.LG 15		
	169. Sustainable Development of Hemp Industry:	330. Surface modification of carbon fibres with		
	Lithuanian Review	graphene oxide for interface improvement in fibre-		
	Dr. Vaida Jonaitiene, Kaunas University of	reinforced composites		
	Technology, Lithuania	Lei Zeng, University of Manchester, UK		
	75. The study of reactive dye compatibility matrix of	331. Selective disassembly of fibre-reinforced		
	Levafix CA reactive dyes for dyeing of cotton fiber in solvent-assisted PEG-based reverse micelle dyeing	rotational moulded composites by plasma functionalisation		
	system	Dr. Muhammad Tausif, University of Leeds, UK		
	Yiu Lun Tang, Hong Kong Polytechnic University,	Dir Wallamillaa Taash, Oliversity of Eccas, ox		
	Hong Kong			
	342. Characterization of Bamboo composites	285. Developing conductive fabric using bacterial		
	Underscoring Node Effects	cellulose-polyaniline composite		
	Rashed Al Mizan, BGMEA University of Fashion &	Hyunjin Kim, Sookmyung Women's University,		
	Technology, Bangladesh	Republic of Korea		
	425. Inherent antioxidant and antibiotic activity of	SK. Promotion and Practice of International Standards		
11:00 - 12:30	lignocellulosic fibers predisposing them to functional clothing purpose	in Leading Textile Enterprises: the SUNSHINE Experience		
11.00 12.30	Prof. Malgorzata Zimniewska, Institute of Natural	Yong Xu, Jiangsu Sunshine Group, China		
	Fibers and Medicinal Plants, Poland	,		
	Functional Textiles 2 MS.LG 16	Design Fashion & Retail MS.LG 19		
	335. Surface Modification of Carbon Fibres for	259. Knitted Material in Movement		
	Interface Improvement in Textile Composites	Dr. Mandy Smith, Auckland University of Technology,		
	Jiawen Qiu, University of Manchester, UK	New Zealand		
	136. Development of electrochemical polyaniline/BC composite using laccase catalysis	30. SOOT – A study of emotionally design and textile colourants		
	Euijin Shim, Sookmyung Women's University,	Neha Rao, Chelsea College of Art and Design, UK		
	Republic of Korea	Thema mady anelocal conlege of the anal peolem, and		
	104. Research and improvement of the fuzzing and	418. The sharing economy: Fashion business		
	pilling performance of fabric made from polyester	enterprise cases		
	interlaced yarn.	Dr. Eunsuk Hur, University of Leeds, UK		
	MD Rokibul Hasan, Wuhan Textile University, China			
	337. A case study on mining curtains and its recycling	123. The No-Sew Revolutionthe next chapter Anita Mitchell, Manchester Metropolitan University,		
	aspects Dr. Asis Patnaik, Cape Peninsula University of	UK		
	Technology, South Africa			
12:30 - 13:30	Lunch - Parkinson Court			
13:30 - 14:00		University, Fabrication of tough photonic crystals		
	for structural colouration of textiles - Rupert Beck	• • • • • • • • • • • • • • • • • • • •		
	Parallel	Session 5		
	Innovations for Natural Fibres MS.LG 10	Functional Textiles MS.LG 15		
	71. Dyeing of EDTA modified jute with reactive dyes	95. Designing the future of the medical textile sector		
	in absence of salt	Holly Morris, University of Otago, New Zealand		
14:00 - 15:15	Dr. Sumantra Bakshi, National Institute of Fashion			
	Technology, Kolkata, India			
	435. Extraction of anthocyanins from blackcurrant	206. Design and Construction of Integrated Solar		
	(Ribes nigrum L.) fruit waste and application as renewable textile dyes	Textile Fabrics Dr. Robert Mather, Power Textiles Limited, UK		
	Dr. Richard Blackburn, University of Leeds, UK	Dr. Nobert Matrier, Fower Textiles Littlited, OK		
	Dr. menara biaekbarri, ornversity or Leeus, ok			

Wednesday 25 July		
Treamesday 2	143. Enzymatic coloration of bacterial cellulose via	99. The influence of bra features on wearing comfort
	laccase-catalyzed polymerization of phenol	and breast support of bras
	compounds	Dr. Kit-Lun Yick, Hong Kong Polytechnic University,
	Ji Eun Song, Sookmyung Women's University,	Hong Kong
	Republic of Korea	
	Protective and Barrier Textiles MS.LG 17	Design, Fashion & Retail MS.LG 19
	61. Development of a novel wound dressing material	212. The Roles of Digital Print and Specialist Design &
	based on a blend of Psyllium and Alginate	Colour Management Software in Sustainable Textile
	polysaccharides	Printing
	Dr. Chris Agboh, Xiros, UK	Duncan Ross, AVA CAD CAM, UK
	245. Effect of process parameters on viscoelastic	194. Fashion education: toybox or toolbox
	properties of energy absorbing materials	Anastasia Vouyouka, SITAM-AB Fashion Studies,
	Dr. Yong Kim, University of Massachusetts -	Greece
	Dartmouth, USA	
	253. Preparation of PTFE Foam Coating Composite	442. Jute: its journey in the apparel sector
	Filter with High Filtration Efficiency	Ms. Paridhi Dhanuka
	Prof. Hong Wang, Donghua University, China	
15:15 - 15:45	Break - Parkinson Court	
		Session 6
	Innovations for Natural Fibres MS.LG 10	Functional Textiles 1 MS.LG 15
	107. Human Hair Colouring by Utilising Chemical	91. Technical textiles sustainable solutions to directly
	Oxidation of Bio-Catechols	reduce global landfill waste of paint exhaust filtration
	Dr. Takanori Matsubara, College of Industrial	in the automotive industry.
	Technology, Japan	Dr. Jane Howarth, University of Bolton, UK
	111. Dyeing of cotton yarn with natural extracts	214. The conductivity mechanism of polyacrylonitryle
	from lac, marigold flower, neem tree bark and	fibers doped in situ with silver nanoparticles
	Burma padauk tree bark	Olga Rac-Rumijowska, Wrocław University of Science
	Dr. Monthon Nakpathom, National Metal and Materials Technology Center, Thailand	and Technology, Poland
	439. Optimisation of Colour Fibre-Blend Systems	352. Heat and moisture transport properties of
	Prof. Stephen Westland, University of Leeds, UK	hollow/microporous yarn fabrics
	Dr. Caroline Hemingray, Leeds Beckett University, UK	Dr. Devanand Uttam, GZSCCET Bathinda, India
15:45 - 17:15	92. Dyeing properties improvement of weld on	441. Delivering the Comfort and Performance that
	corona discharge treated wool fabric	Customers Demand
	Dr. Aazam Talebian, Islamic Azad University, Iran	John Crocker, SDL Atlas Textile Testing Solutions, USA
	Functional Textiles 2 MS.LG 16	Design, Fashion & Retail MS.LG 19
	363. Facile fabrication of amorphous photonic	112. Image analysis as a basis to the design of
	structures with non-iridescent and high-stable	wheelchair rugby sportswear
	structural color on textile substrates	Dr. Sara Braganca, Southampton Solent University, UK
	Yichen Li, Zhejiang Sci-Tech University, China	
	350. Synthesis of ethyl cellulose microcapsules with	275. Assessing the Impact of Sharing Textile Crafts
	immortelle essential oil	Skills between UK and Indian Universities
	Prof. Sandra Bischof, University of Zagreb, Croatia	Dr. Julie King, University of Northampton, UK
	309. Optimization of fire resistant and comfort	226. The Marketing of Culture: Luxury Brands' Art
	properties of knitted fabrics	Appropriation in China
	Dr. Hafsa Jamshaid, National Textile University,	Dr. WenYing Claire Shih, Hsuan Chuang University,
	Pakistan	Taiwan
	346. Fibre-based chemical sensors	223. Chaine Operatoire: Indonesian Stitch Resist
	Dr. Carol Crean, University of Surrey, UK	Dyeing Technique
		Bintan Titisari, University of Leeds, UK
18:30	Coaches Depart to Conference Dinner Royal Arm	ouries Leeds

Thursday 26 Ju	ily		
08:00	Registration - Parkinson Court		
09:00 - 09:30	Keynote Beatrix Ong MBE, A Step into a Responsible Future Rupert Beckett Lecture Theatre		
09:30 - 10:00	Keynote Prof. Stephen Russell, University of Leeds, Nonwovens Fit for the Next Regeneration -		
	Rupert Beckett Lecture Theatre		
10:00 - 10:30	Keynote Prof. Calvin Wong, Hong Kong Polytechnic University, How Artificial Intelligence Reshapes		
	Online Shopping Experience: Challenges and Opportunities? - Rupert Beckett Lecture Theatre		
10:30 - 11:00	Break - Parkinson Court		
10.30 - 11.00		Session 7	
	Textile Processes MS.LG 10	Functional Textiles MS.LG 15	
	398. Enzyme technology for sustainable textile	94. FE simulation of the interaction between breast	
	coloration and surface pattern	and daily bra during wearing	
	Prof. Jinsong Shen, De Montfort University, UK	Yue Sun, Hong Kong Polytechnic University, Hong Kong	
	297. Study on a water-saving and salt-free reactive	93. Analysis of bra design features for older women	
	dyeing of cotton fabrics in non-aqueous medium of	Shichen Zhang, Hong Kong Polytechnic University,	
	liquid paraffin system	Hong Kong	
	Yuan An, Zhejiang Sci-Tech University, China		
	193. Introduction of multi-dyes into Metal-Organic	209. Selection and Characterisation of Warp Knitted	
	Frameworks materials for highly efficient	Textile Materials used for Reflector Antennas on	
	photodegradation of ultra-stubborn dyes under	Communications Satellites	
	visible-light irradiation	Isa Bettermann, RWTH Aachen University, Germany	
	Dr. Qing Li, Xi'an Polytechnic University, China		
	270. Spinning of high hollow pet filaments and their	181. Effect Of Bicomponent Fibers On Acoustical	
	physical property according to elution conditions	Properties of Spunmelt Three-layered Nonwovens	
11.00 12.20	Dr. Ji Man Kang, Korea Textile Development	Dr. Dilan Canan Celikel, Gaziantep University, Turkey	
11:00 - 12:30	institute, Republic of Korea	Design Feeking & Beteil MC LC 10	
	Colour and Education MS.LG 16	Design, Fashion & Retail MS.LG 19	
	SK. Importance of Colour for Textile and Clothing	198. The Deployment of Korean Cultural Elements in Printed Textiles	
	Prof. Tetsuya Sato, Kyoto Institute of Technology, Japan	Jihye Park, University of Leeds, UK	
	317. The impact of LED lighting for textile industry	41. Technically Craft: Interdisciplinary Design Practice	
	Prof. Ronnier Luo, Zhejiang University, China	for Interactive Textiles	
	Tron normal 200, 200, and a control of the	Anne Toomey, Royal College of Art, UK	
	258. Modelling of the yarn-fabric spectral	405. Archiving futures: Cloth stories participatory	
	reflectance for solid yarn-dyed fabric based on	methodologies and practices, can records and archives	
	hyper-spectral imaging system	speak for themselves	
	Prof. Zhang Jianxin, Zhejiang Sci-Tech University,	Rose Sinclair, Goldsmiths, University of London, UK	
	China		
	45. Virtual Learning Environments for future textile	146. Analysis of the Sustainable Development	
	education	Potential of As You Like It Costume Design Working	
	Andrew Filarowski, Society of Dyers and Colourists,	Module	
	UK	Prof. Yi-meei Wang, National Taiwan University,	
12:30 - 13:30	Lunch - Parkinson Court	Taiwan	
12.50 - 15.50		Session 8	
	Textile Processes MS.LG 10	Functional Textiles MS.LG 15	
	377. Discriminatory Mechanical and Sensory	267. Study the Comfort properties of Conductive	
	Properties for the Study of Fabric Finishing in the	fabrics made by nanotechnology	
	Laundry Cycle	Azam Ali, Technical University of Liberec, Czech	
13:30 - 14:45	Christopher Boardman, Unilever, UK	Republic	
	324. Effects of position and tension of nylon filament	74. Evaluation of stress distribution on body exerted	
	on properties of wool sirofil yarns	by compression sports bras by using finite-element	
	Dr. Tao Hua, Hong Kong Polytechnic University, Hong	sub-models of body and sports bra	
	Kong	Ruixin Liang, Hong Kong Polytechnic University, Hong	
1		Kong	

Thursday 26 Ju	Thursday 26 July			
,	326. Influence of carding and punching parameters on fibre orientation in carded web and properties of needle punch nonwoven Rupayan Roy, Indian Institute of Technology Delhi, India	436. Investigation into the Wet Abrasion of Cotton Fabric and the Effect of Anti-Fibrillation Treatments Prof. Chris Carr, University of Leeds, UK		
	Testing and Education MS.LG 16	Design, Fashion & Retail MS.LG 19		
	437. Image-based Assessment of Fabric Pilling Dr. Peter A. Rhodes, University of Leeds, UK	319. Image creation on uniform jacquard textile by laser ablation and multi-layered friction-spinning technologies  Dr. Frankie Ng, Hong Kong Polytechnic University, Hong Kong		
	365. Methods for Characterising Fabric Deformations Dr. Ningtao Mao, University of Leeds, UK	131. Radical change for novice textile designers in accelerated CAD learning and application Dr. Phil Henry, University of Leeds, UK		
	114. Outlines and Outliers: A mix-method study of garment silhouette and ageing body shape Minzhi Zhang, University of Manchester, UK	397. Made in Macclesfield: community engagement through contemporary textile crafts Francesca Lockett Richardson, University of Huddersfield, UK		
14:45 - 15:15	Break - Parkinson Court			
15:15 - 15:45	Closing Ceremony - Rupert Beckett Lecture Thea	tre		
16:00 - 21:30	School of Design Tours and Entertainment			

<sup>\*</sup>SK Denotes Session Keynote

#### Advanced Fibres and Materials Manufacture

	Advanced Fibres and Materials Manufacture
ID	Title
66	A study of electrical percolation threshold about carbon black in polymer composites  Dr Sang Young Yeo, Korea Institute of Industrial Technology, Republic of Korea
88	Fabrication and characterization of exfoliated chitosan-gelatin- montmorillonite nanocomposite nanofibers  Dr Sima Habibi, Islamic Azad University, Yadgare Imam Khomeini (RAH) Shahr-e-Rey Branch, Iran
106	Investigation of thermal conductivity of 3D PET knits with different bio-ceramic additives  Dr Vitalija Rubeziene, Center for Physical Sciences and Technology, Lithuania
181	Effect of bicomponent fibers on acoustical properties of spunmelt three-layered nonwovens Dr Dilan Canan Celikel, Gaziantep University, Turkey
240	The application of auxetic material for protective sports apparel Charlotte Moroney, Manchester Metropolitan University, UK
305	On-demand activation of an antimicrobial biomaterial for oral soft tissue regeneration Amy Smith, University of Leeds, UK
367	In-situ synthesis of nano silver inside chitosan nano fibrous web and its deposition on polyester nonwoven structure for water purification Rahul Gadkari, Indian Institute of Technology Delhi, India
407	Polyurethane/graphene nanocomposite based weather resistant and gas barrier films and laminated textiles for aerostat application  Mr Bapan Adak, Indian Institute of Technology Delhi, India

#### **Business**

ID	Title
121	A model for adopting e-learning tools within the creative arts: a multiple stakeholder analysis Ryan Wilkinson, University of Huddersfield, UK
189	Environmental reporting: the way forward  Dr Christina Wong, The Hong Kong Polytechnic University, Hong Kong
265	"How the competitiveness & sustainable development is reality through livelihood development & income increment in textiles MSMEs by cluster based approach?- an Indian case study"  Dr Saumen Mapdar, Ministry of Textiles, India
302	OEM - manufacturer matrix for reviving the financial fortunes of the textile value chain  Dr Debasish Banerjee, Blackstone Synergy Consulting Group Limited, Kenya

#### **Characterisation and Instrumentation**

ID	Title
87	Designing parameters for prosthetic grafts: analyzing the effects of stress and alcohol on medical grade polyester
	Dr Mashiur Rahman, University of Manitoba, Canada
384	The extent of use of scanning electron microscopy in textile research and its reproducibility Michael Brookes, University of Leeds, UK
419	Realising nonwoven textiles as acoustic absorbents Neha Sharma, University of Salford, UK

#### Clothing

ID	Title
243	Assessment of carbon emission in garment sewing production process Xujing Zhang, Soochow University, China
248	Palestinian cultural heritage, symbolic costumes and textile designs
	Beissan Arafat, Manchester Metropolitan University, UK
360	Employers' perception of achieved competency delivered by trainers in preparing graduates for productive careers in textile/clothing industry in a developing country; Sri Lanka in perspective Prof Rohana Kuruppu, RMIT University/Brandix College of Clothing Technology, Sri Lanka
376	Healthcare solutions; the role of wearable textiles Andrea Izquierdo Ruiz, University of Manchester, UK
431	Thermal and Tactile Comfort of Nanofilament Fabric Musaddaq Azeem, Technical University of Liberec, Czech Republic

#### Colouration

ID	Title
92	Dyeing properties improvement of weld on corona discharge treated wool fabric
	Dr Aazam Talebian, Islamic Azad University, Iran Dr Aazam Talebian
109	Novel silk colouration by utilising metal chelation, oxidation or co-pigmentation of natural dyes
100	Asuka Sato, College of Industrial Technology, Japan
196	Colour perception of clothes images: comparison between Thai and Japanese data
	Dr Saori Kitaguchi, Kyoto Institute of Technology, Japan
251	Study on properties of full deacetylated xanthan and its application in reactive printing
	Dr Lili Wang, Zhejiang Sci-Tech University, China
379	Improvement of hydrophilicity and water/oil repellency of polyester fabrics
	Dr Burcu Yılmaz Şahinbaşkan, Marmara Universitym Turkey
	Identification of a screen print approach for the application of multi-colour and pattern changing
338	photochromic effects
	Dilusha Rajapakse, Birmingham City University, UK
	In-situ synthesis of silver nanoparticles@linen via green approach using orange peel extract biomolecules
390	as natural reductants
	Dr Shahid Ul Islam, Birmingham City University, United Kingdom

#### Design & Fashion

ID	Title
192	Mechanical properties of Japanese and Scottish tweed fabrics
	Prof Machiko Murakami, Gifu City Women's College, Japan
255	A study of microbiological patterns applied in traditional wall-hanging designs
	Yajie Gao,University of Manchester, UK
257	Fast, lean and green fashion; integrating design with sustainability
	Caroline Gilbey, Ravensbourne, UK
281	The ultimate bag for life
	Laura Camerer Cuss, Stitchsmith, UK
	Exploring indigenous West African fabric design in the context of contemporary global commercial
284	production
	Richard Acquaye, University of Southampton, UK

#### Design & Fashion

	Design & Fashion
ID	Title
321	Innovative light-emitting imaging on fabrics integrated with polymer optical fibre using laser micromachining technology
	Dr Frankie Ng, The Hong Kong Polytechnic University, Hong Kong
328	How can industry and technologists utilise the unique craft knowledge of weavers?
	Sophie Zajicek, University of the West of England, UK
395	A systematic review of zero waste fashion construction techniques
	Dr Hye-Won Lim, Birmingham City University, UK

#### Sustainability

<ul> <li>350 fabric         Prof Sandra Bischof, University of Zagreb, Croatia     </li> <li>366 From responsive design to sustainable systems: digital laser processing across the textile production cycle         Dr Laura Morgan, Loughborough University, UK     </li> <li>374 Characterization of bamboo fibers underscoring node effects         Irfan Iqbal, BG University, Bangladesh     </li> <li>382 Study on key problems and their features towards an industrial level of fashion remanufacturing         Biruk Semu, University of Borås, Sweden     </li> </ul>	ID	Title
169 Sustainable development of hemp industry: Lithuanian review Dr Vaida Jonaitiene, Kaunas University of Technology, Lithuania Introduction of multi-dyes into metal-organic frameworks materials for highly efficient photodegradation of ultra-stubborn dyes under visible-light irradiation Dr Qing Li, Xi'an Polytechnic University, China  232 Development of nonwoven air filter for petrol and diesel engines Pranil Vora, D.K.T.E'S Textile & Engineering Institute, India  340 Introducing "Scoby" textiles to teens Gracie Matthews, St Cuthberts College, New Zealand  343 A study on antimicrobial efficiency of croton bonplandianum stems sap on cotton fabric Goutam Bar, National Institute of Fashion Technology, Bhubaneswar, India  Application of ethyl cellulose microcapsules with Helichrysum italicum essential oil onto modal and cotton fabric Prof Sandra Bischof, University of Zagreb, Croatia  366 From responsive design to sustainable systems: digital laser processing across the textile production cycle Dr Laura Morgan, Loughborough University, UK  374 Characterization of bamboo fibers underscoring node effects Irfan Iqbal, BG University, Bangladesh  382 Study on key problems and their features towards an industrial level of fashion remanufacturing Biruk Semu, University of Borås, Sweden	90	Sustainable competitiveness in the urbanization economies of slow relational fashion networks in Taiwan
Dr Vaida Jonaitiene, Kaunas University of Technology, Lithuania  Introduction of multi-dyes into metal-organic frameworks materials for highly efficient photodegradation of ultra-stubborn dyes under visible-light irradiation Dr Qing Li, Xi'an Polytechnic University, China  232 Development of nonwoven air filter for petrol and diesel engines Pranil Vora, D.K.T.E'S Textile & Engineering Institute, India  340 Introducing "Scoby" textiles to teens Gracie Matthews, St Cuthberts College, New Zealand  343 A study on antimicrobial efficiency of croton bonplandianum stems sap on cotton fabric Goutam Bar, National Institute of Fashion Technology, Bhubaneswar, India  Application of ethyl cellulose microcapsules with Helichrysum italicum essential oil onto modal and cotton  fabric Prof Sandra Bischof, University of Zagreb, Croatia  366 From responsive design to sustainable systems: digital laser processing across the textile production cycle Dr Laura Morgan, Loughborough University, UK  374 Characterization of bamboo fibers underscoring node effects Irfan Iqbal, BG University, Bangladesh  382 Study on key problems and their features towards an industrial level of fashion remanufacturing Biruk Semu, University of Borås, Sweden		Dr WenYing, Claire Shih, Hsuan Chuang University, Taiwan
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406 Investigation into the development of a durable and "degradable" binder for the inkiet printing of cotton	406	Investigation into the development of a durable and "degradable" binder for the inkjet printing of cotton
Xenia Mutter, University of Leeds, UK		

#### **Textile Manufacturing**

	Textile Manaractaring
ID	Title
55	Cotton yarn production process parameters optimization
	Zeeshan Mohammad Ali, Baluchistan University of Information Technology engineering & management sciences, Quetta, Pakistan
76	Effect of yarn input tension and stitch cam setting on the dimensional parameters of circular knitted fabrics using ultrasonic technique  Dr Sandip Mukherjee, National Institute of Fashion Technology, Kolkata, India
104	Research and improvement of the fuzzing and pilling performance of fabric made from polyester interlaced yarn.  MD Rokibul Hasan, Wuhan Textile University, China

#### **Textile Manufacturing**

	Textile Manufacturing
ID	Title
108	Significance of thermal shrinkage of heat-set polyester plain knitted fabric panels subjected to different thermal based processes
	H.A. Ayomi Enoka Perera, University of Moratuwa, Sri Lanka
	Laccase immobilization onto plasma treated polyethylene/polypropylene nonwoven for dye
170	decolorizaiton filter bag media
	Prof. So Hee Lee, Gyeongsang National University, Republic of Korea
256	Relating energy usage to fabric properties in the hydroentanglement process
	Dr Doice Moyo, Cape Peninsula University of Technology, South Africa
263	Effects of ozone washing treatment on the structure and mechanical properties of polyolefin elastic fibers Ms Gao Ke, Wuhan Textile University, China
270	Spinning of high hollow pet filaments and their physical property according to elution conditions  Dr Ji Man Kang, Korea Textile Development Institute, Republic of Korea
295	Effect of loop structures on compression, friction and abrasion resistance of warp-knitted spacer fabrics Dr Yanping Liu, Donghua University, China
314	Determine the shear rigidity modulus for warp knitted non-crimp fabrics by picture frame test
	Dr Jinhua Jiang, Donghua University, China
315	Compression and permeability of fiber reinforced material in VIMP
	Prof Nanliang Chen, Donghua University, China

# **SOCIAL PROGRAMME**

### Monday 23 July - Welcome Reception

On Monday 23rd July, 16:00 - 19:00, we are holding a welcome reception for early arrivals in Parkinson Court. All attendees are welcome. This is a fantastic opportunity to register and collect your conference badge and bag, meet fellow delegates and network. A light buffet and drinks will be served. Poster presenters are also invited to hang their posters on arrival in advance of the academic conference starting on Tuesday.

### Tuesday 24 July - Poster Exhibition & Buffet

Parkinson Court will host the TIWC 2018 Poster Session from 17:30 on Tuesday 24 July. We would like all poster presenters to be available to answer questions on their work for the duration of the poster exhibition. A hot fork buffet and drinks will be served.

### Wednesday 25 July - Gala Dinner and Awards Ceremony, Royal Armouries Leeds

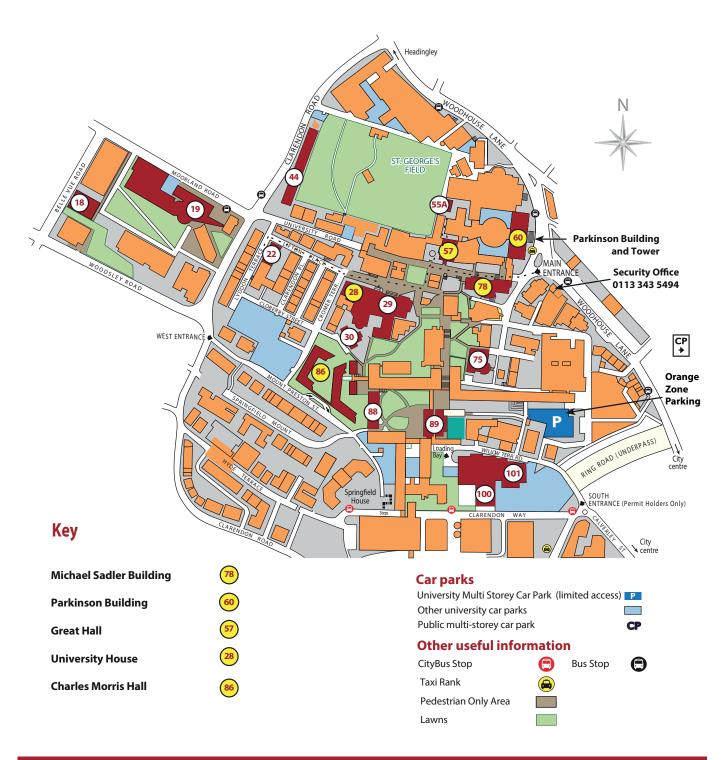
All full Conference Delegates, Student Delegates and Wednesday Day Delegates are invited to attend the Gala Dinner and Awards Ceremony at the Royal Armouries. Coaches depart from the Parkinson Steps outside the Parkinson Building at 18:30. Coaches return from 22:00 to the Parkinson Steps. The dress code is smart casual.

### Thursday 26 July - Social Evening, School of Design Tours and Entertainment

The social interaction and networking of any conference is important and so we have tried to provide another distinctive event that will build on the Dinner at the Royal Armouries. The social evening on Thursday is built around the tour of the School of Design and its facilities, but in addition we are also showcasing a jazz band to provide soothing mellow tones, bhangra music and dance to set your feet tapping and karaoke for the "rock and pop stars" to round off the evening. In addressing your musical and cultural appetites we will also provide the expected food and drinks to ensure your dietary intake needs are also satisfied.



# **MAP**



#### All venues on campus

- 18. Western Lecture Theatre
- 19. Leeds University Business School (LUBS)
- 22. Ellerslie Hall
- 28. University House
- 29. Refectory
- 30. Lyddon Hall
- 44. Henry Price Residence
- 57. Great Hall

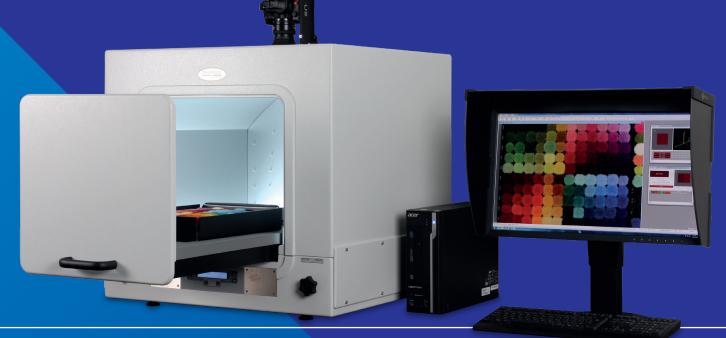
- 60. **Parkinson Building**
- 75. **School of Music**
- 78. **Michael Sadler Building**
- Charles Morris Hall (Dobree House, Storm Jameson Court, Whetton House) 86.
- 88. Staff Centre
- 89. Roger Stevens Building
- 100. Conference Auditorium
- 101. Sports & Exhibition Centre/The Edge



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- Sustain product integrity
- Improve supply chain efficiency
- Detect anomalies, contamination or deterioration

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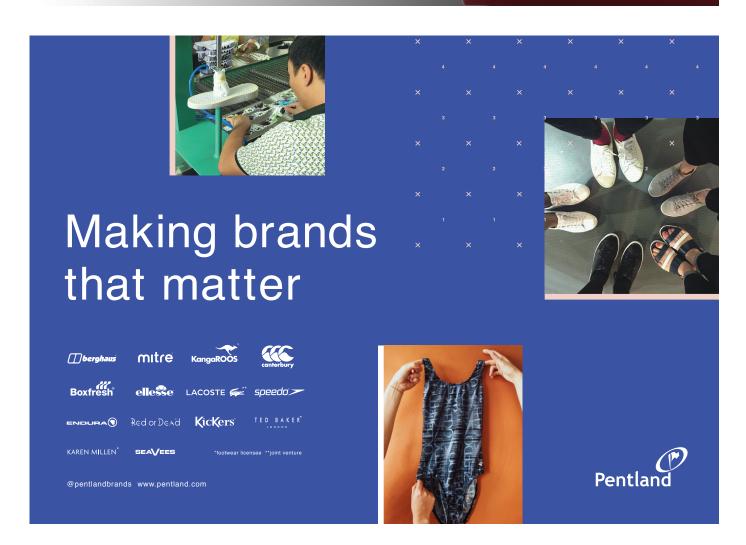








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