

3rd International Conference on Knowledge Based Textiles March 05 - 06, 2024 **Conference Program (Tentative)**



Day 1	Day 1 March 05, 2024				
Time	Inauguration Ceremony (MH: Main Hall)				
9:30 - 9:35	Recitation from Holy Quran/ National Anthem				
9:35 - 9:40	Secretary ICKT				
			Donghua University, China		
9:40 - 10:00	Welcome remarks by conference Co-organizers		NED/ BUITEMS Pakistan		
10.00			Northumbria University, UK		
10:00 - 10:20 10:20 - 10:35	Current Status and Achievements of GCF-63 Project "KnowTex" Address by Rector NTU		Prof. Yasir Nawab, PI KnowTex, NTU Prof. Dr. Tanveer Hussain, Rector NTU		
10.20 - 10.33	Address by Nettor NTO	Textile Associations			
10:35 - 10:50	Address by the Guests of Honour		FCCI/ Chambers		
		GCF Industrial Partners			
10:50 - 10:55 10:55 - 11:05	Address by the Chief Guest		Chief Guest		
11:05 - 11:25	Distribution of shields and Group Photo Tea Break				
	Design for sustainability, circular economy and life cycle assessment focussing on biocomposites Prof. Sapuan Salit, UPM, Malaysia				
11:45 - 12:05	Circular fashion : Redefining the Global Textile Value Chain		Dr. Alana James, Northumbria University, UK		
12:05 - 12:25	Simple Sustainable Circular Supply Chain Complexicity		Dr. John Arthur, Consultant, UK		
12:25 - 12:40	Industry, Communication, Opportunity & Academia-Why the I	Magic of Fabric does not develop to deliver value to all the	Mr. Shabbir Halai, CEO Hallai Enterprises		
12:40 - 12:55	Circularity: A manufacturer's perspective		Mr. Mujeebullah Khan, CEO, iTextiles		
	Panel Discussion (Circularity, a global context):		Mr. Mujeebullah Khan, CEO, iTextiles Ms. Nin castle, Reverse Resource		
12:55 - 13:35	Navigating the Global Fashion Landscape: Challenges and Opp	ortunities for Textile Manufacturers	Mr. Ben Bouwhuis, CEO, AFFEXCO Global		
	(Dr. Shahid Rasul, Northumbria University, UK)		4. Ms. Resham Shahzad, Director, Arshad Group		
10.05			5.		
13:35 - 14:25	Consider A (Main Hall)	Lunch Break	Consider D (MAD Hall 1)		
	Session A (Main Hall) Circularity/Circular Fashion	Session C (MP Hall 2) Functional & Smart Textile	Session B (MP Hall 1) Composite Materials I		
	Session Chair: Dr. Alana James (Northumbria University, UK)	Session Chair: Dr. Jibran Khaliq (Northumbria University, UK)	Session Chair: Prof. A. Fattah Seyam (NCSU, USA)		
	Why does a Circular Economy matter for a successful		Ballistic Impact damages mechanism of Textile Structural		
14:25 - 14:50	transition to sustainability	Functional and Coated Textiles	Composites		
	Dr. Sarim Dastgir (Qatar Env. & Energy Research Institute)	Dr. Munir Ashraf (NTU)	Prof. Bohong Gu (Donghua University, China)		
44.50 45.05	A case study conducted by the World Wide Fund for Nature	Wearable textile-based piezoelectric and triboelectric			
14:50 - 15:05	(WWF) on competitive practices in the textile industry, focusing on compliance strategies to enhance sustainability.	nanogenerators: State-of-the-art, challenges and future outlines	The Effect of Fernand Cilina Collected Consequences and the Change		
	Mr. Sohail Ali Naqvi (WWF Pakistan)	Dr. Roohullah Bagerzadeh (Amirkabir university, Iran)	The Effect of Fumed Silica Colloidal Suspension on the Shear Thickening Fluid Fabric Composite		
	Transformation of the Textile Industry towards Sustainable	Nanofibers: A Sustainable Frontier for Cutting-Edge	Prof. Mohd Yazid Yahya (UTM, Malysia)		
15:05 - 15:20	Development	Materials			
	Dr. Awais Khatri (Mehran UET)	Prof. Dr. Zeeshan Khatri (Mehran UET)			
15:20 - 15:35	Revealing the SMEP Project - Transforming Pakistan's Textile Landscape with Digital Traceability"	Potential new products in the export range of Pakistan's textile Industry	3D woven Composites for Ballistic Applications		
	Ms. Nin Castle (Reverse Resources)	Dr. Usman Zubair (NTU)	Dr. Muhammad Umair (NTU)		
15:35 - 15:50	·	An approach to develop the flexible textile-based antennas	Impact Analysis of Hybrid Safety Helmets: A Numerical		
15.55 - 15.50	Traceability in Textiles & Apparel	for smart textile applications	Approach		
45.50 46.05	Mr. Imran Asghar (Fibertrace)	Dr. Shahood uz Zaman (NTU)	Dr. Muhammad Ali Nasir (UET Taxila)		
15:50 - 16:05	Session A1 (Main Hall)	Tea Break Session C1 (MP Hall 2)	Session B1 (MP Hall 1)		
	Fibers I	Productivity & Quality	Textile Production Processes/ Composite Materials II		
	Session Chair: Prof. Josphat Igadwa, Kenya	Session Chair: Dr. Aminoddin Haji, Yazd University	Session Chair: Prof. Hairul Abral, Indonesia		
16:05 - 16:30	Alternative Fibers for Textiles Fibers: Innovation &	Enhancing productivity of Supervisors and Machine	Innovation in Weaving at ITMA 2023 Lights the Road to		
10.05 10.50	Significance Dr. Sheraz Ahmad (NTU)	Operators using SMOT	Industry 4.0		
	Improving Access To Sustainable Energy In Rural Pakistan	Dr. Abher Rasheed (NTU, Faisalabad) Productivity and Profitability enhancement in apparel	Prof. A. Fattah Seyam (NCSU, USA) Elevating Pakistani Textiles through Manmade		
16:30 - 16:45	Using Food And Fiber Agro-waste As A Renewable Fuel	industry through knowledge based innovation	Transformation for Global Export		
	Dr. Jibran Khaliq (Northumbria University, UK)	Dr. Abdulwahab, Crescent Bahuman Ltd	Dr. Salma Farooq (NED University)		
		What role can professional coaching play in textile and	Development and analysis of 3D computational model of		
16:45 - 17:00	Date Palm Fibers: The New Comer to the Textile Industry	industrial innovation?	multifilament polyester yarn and weft knitted fabrics to		
	Dr. Mohamad Midani Intovivo Consulting Equat		predict comfort properties of sportswear Dr. M. Owais Raza Siddiqui (NED)		
h	Dr. Mohamad Midani, Intexive Consulting, Egypt Empowering Communities: Transforming Pakistani Wool into	Mr. Ben Bouwhuis (CEO, AFFEXCO Global) Analysis of factors effecting cost of poor quality in apparel			
17:00 - 17:15	High-Value Textiles through Research	manufacturing	Development of a lightweight composite Slay-Alpha		
	Dr. Syed Zameer ul Hassan (BUITEMS)	Dr. Aqsa Imran (NTU)	Dr. Syed Talha Ali Hamdani (NTU)		
			Study the Effects of Structural Arrangements on Mechanical		
	Panel Discussion (Pakistan's Textile Industry): 1. Mr. Saqib Sohail, Artistic Millinir		Properties of 2D Auxetic Woven Fabrics Dr. Arif A Shah (NESCOM)		
17:15 10:00	Charting the Path: Advancing Pakistan's Textile Industry	2. Industry Rep	Development of light weight protective armour		
17:15 - 18:00	Through Circular Practices (Dr. Munir Ashraf, NTU)	Mr. Jeff Wheeler, Elevate, USA Mr. Rashid Iqbal, Naveena Group	Dr. Muhammad Imran Khan (NTU)		
	, , , , , , , , , , , , , , , , , , , ,	5. Mr. Imran Zaidi, Primark	Rubber Sandwiched Composites for Low Velocity Impact		
			Applications Mr. Hassan Iftekhar (NTU)		
最發展	National Textile University Faisalahad		sbatool@ntu.edu.pk		









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Conference Program (Tentative)

Day 2		March 06, 2024	INSUJATE AND LEAU
Day Z			0 (100 (100 (100)
	Session A2 (Main Hall)	Session B2 (MP Hall 1)	Session C2 (MP Hall 2)
	Textile Business	Composite Materials III	Circularity/Recycling
	Session Chair: Dr. Muhammad Abrar (GCUF)	Session Chair: Prof. Bohong Gu (Donghua University)	Session Chair: Dr. Raza Shah (Karachi University)
9:30 - 9:55	Transforming Textile Business into a Circular and a Digital	Development and characterization of graphane nanoplatelet (GNP) reinforced polylactic acid (PLA) composites for electric	
3.50	Enterprise	vehicle battery packs	amoration in the readic and repairer sector in herrya
	Dr. Shahid Rasul (Northumbria University, UK)	Prof. Mohd Sapuan Salit (Universiti Putra Malaysia)	Dr. Josphat Igadwa (Moi University, Kenya)
9:55 - 10:10	Enhancing Exports by Product & Market Diversification	Strategies and methodologies for ginger waste utilization	Development of Hybrid Weft Knitted Auxetic Structures for
	Dr. Sajjad Ahmad Baig (NTU)	Prof. Hairul Abral (Andalas University, Indonesia)	Kids and Maternity Wear Dr. Habib Awais (NTU)
	Pakistan Textile Portal: Creating Business by Connection the	Geo-tech application of nonwoven wool sheet for	
10:10 - 10:25	textile value chain	underground watercontent enhancement	Upscale recycling of nonwoven waste
	Dr. Muhammad Asif (NTU)	Ms. Laiba Munir (BUITEMS)	Dr. Yasir Qayyum Gill, UET Lahore
10:25 - 10:40	Opportunities of Collaboration with China	Electrically conductive epoxy/polyaniline composite	The Future of Textile Recycling Technologies
	Prof. Zamir Ahmed Awan (Global Silk Route Research	fabrication and characterization for electronic applications	Mr. Meer Mehmood Khan Jalbani (University of the
	Alliance)	Ms. Iqra Abdul Rashid (NTU)	Punjab)
	Unlocking the Complex Interplay Between Economic Growth,	Development and characterization of multifunctional carbon	Balochi Wool Renaissance: From waste to wearable
10:40 - 10:55	Environmental Sustainability, and Degradation: An Advanced ARDL and NARDL Analysis	fabric-reinforced polymer composites incorporated with inorganic flame-retardants	innovation in Textiles
	Dr. Muhammad Zia ur Rehman (NTU)	Ms. Ayesha Afzal (NTU)	Ms. Aiman Waseem (BUITEMS)
10:55 - 11:10	Mapping Global Trade Potential of Pakistan Denim Industry:	Development of composite interior panels; Repurposing	Challenges and Opportunities in Textile Waste
	Empirical Evidence with Gravity Model	textile dead waste	Management: A Review of Recycling Technologies
	Ms. Ghazia Batool (NTU)	Mr. Ali Raza Shafqat (NTU)	Mr. Raja Waseem Ullah Khan (NTU)
11:10 - 11:25	Customer Perspectives on Sustainable Practices in Textile	Innovative Reinforcement Strategies for Enhanced	Recycling Threads: Barriers and Challenges in Textile sector
	Manufacturing: A Comprehensive Review and Outlook	Performance of Natural Fiber-Reinforced Polymer	of Pakistan
	Mr. Syed Zeeshan Haider (NTU)	Dr. Tehseen ullah (NTU)	Dr. Muhammad Ahmad-ur-Rehman (NTU)
11:25 - 11:40	Unlocking Sustainable Success: Overcoming Barriers in	Fabrication and impact analysis of sandwich composites by 3-	
	Pakistan's Textile Circular Supply Chain Mr. Muhammad Ibrahim Shahid (NTU)	D printed polymeric honeycomb core Mr. Sohaib Arif (NTU)	Trends in Pakistan Ms. Ruba Babar (Lahore College for Women University)
11:40 - 11:55	The state of the s	Tea Break	instruction from the control of the
	Session A3 (Main Hall)	Session B3 (MP Hall 1)	Session C3 (MP Hall 2)
	Traceability	Waste Water Treatment	Nanotechnology/ Energy
	Session Chair: Prof. Dr. Zeeshan Khatri (Mehran UET)	Session Chair: Prof. Yazid Yahya (UTM, Malysia)	Session Chair: Dr. Roohullah Bagerzadeh (Amirkabir
11:55 - 12:20		Application of Polymer Nanocomposite Membranes for	University, Iran)
11.55 - 12.20	Traceability for the competitive Edge	Textile Wastewater Treatment	Nanotechnology: the science and applications
	Mr. Jeff Wheeler (Elevate, USA)	Dr. Nasir Ahmad (NUST)	Prof. Abdel Salam (King Abdulaziz Univesity,KSA)
	Environmental Index Measures Promoting Assessment and	Potential of Modified fibers in Textile Wastewater	Rational design and Synthesis of Energy Materials for Next-
	Circular Transparency in Fashion	Treatment	Generation Photovoltaic Solar Cells
12:20 - 12:50	Dr. Alana James (Northumbria University, UK)	Aminoddin Haji (Yazd University, Iran)	Dr. Raja Shahid Ashraf (GCU Lahore) CoS2:Ni17S18:Al2S3 thin film as supercapacitor electrode
12.20 12.50			for astounding energy storage and explicit photocatalyst for
			Dr. Khuram Shahzad Ahmad (FJWU)
12:50 - 13:05	Nutrient Use Efficiency, Carbon Monitoring, and Life Cycle	Harnessing the power of Sun to bring circularity to textile	Fabrication of Cr2AIC MAX Phase for Flexible Supercapacitor
	Assessment in the Textile Supply Chain	Wastewater	Devices
13:05 - 13:20	Dr. Khalid Mahmood (Rothamsted, UK)	Dr. Nimra Nadeem (NTU) Low pressure NF membranes for heavy metal removal from	MS. Arrisha Akram (University of Agriculture) Engineering of MoS2 as Flexible sensors and Energy devices
15.05 - 15.20	Traceability as a business imperative	wastewater	
	Mr. Irfan Islam Khan (Halexia)	Ms. Nida Abid	Ms. Maryam Kousar (Uni of Agriculture)
13:20 - 13:35	Tracing Sustainability: Unveiling the Role of Traceability in	Greening the Blue: A sustainable Approach to Detoxify	Polythiophene as an Emerging Conducting Polymer in Textile
	Shaping Circular Textile Economies	Synthetic Textile Sewage Containing Textile Dyes Using Bacterial Consortium	sector
	Dr. Awais Ali Khan (SAWIE)	Mr. Khalid Hussain (KIBGE, University of Karachi)	Ms. Aiman Fatima (University of Agriculture)
13:35 - 14:25		Lunch Break	
	Session A4 (Main Hall)	Session B4 (MP Hall 1)	Session C4 (MP Hall 2)
	Fibers II	Functional & Smart Textile	Textile (Misc)
	Session Chair: Dr. Mohamad Midani (Cairo University, Egypt)	Session Chair: Prof. Abdel Salam (King Abdulaziz University,	Session Chair: Prof. Sapuan Salit (Universiti Putra Malaysia)
		KSA)	Towards Creases Toutille Manufacture 1.0
	Spinnable Banana Fibers from Banana plant Stem: A success	Smart and Interactive Textiles: Pioneering the Future of	Towards Greener Textile Manufacturing: A Comparative Study on Core CVC and Staple CVC Yarns for Fibril Pollution
	story	Wearable Technology	Mitigation
14:25 - 14:55	Dr. Faheem Ahmad (NTU)	Dr. Jibran Khaliq (Northumbria University, UK)	Dr. Zulfiqar Ali (NTU)
	AM-Regen: Cultivating Resilience in Cotton through		Investigation of the heat setting and dyeing processes of
	Regenerative Practices		cationic dyeable polyester knitted fabric Dr. Saira Faisal (NED University)
14:55 - 15:10	Mr. Saqib Sohail (Artisictic Milliners) Adding value to Banana waste: Preparation of fibers and	Electroconductive and EMI Shielding Textiles: A New Era	An Investigation into the Integration and Impact of
13.10	wipes	of Low Cost Technical Textiles	Sustainable Practices in the Denim
	Dr. Edwin Kamala , Uganda	Dr. Asif Ali Qaisar, UET Lahore	Mr. Mubbashir ali (Naveena Group)
15:10 - 15:25	Devlopment of Cotton/Jute Blended yarn and Fabrics for	Functional Textile Fibers for Biomedical Applications	Groundbreaking Innovations and Promising Role of ZNO NPs
	Apparels		by Aloe Vera Gel Extract for enhancing UPF in Textiles
	Ms. Bushra Mushtaq (NTU)	Dr. Muhammad Anwaar Nazeer (NTU)	Ms. Uswa Batool (GCUF)

15:25 - 15:40	A Comparative Life Cycle Assessment Of Alternative Cellulosic Fibers	Smart Drug Delivery system	Microencapsulation: Innovation in Textiles and Applications for Enhanced Fabric Functionality
	Mr. Muhammad Sohaib Atiq (NTU)	Dr. Raza shah (Karachi university)	Ms. Zarnab Gul (Kaunas Univ of Technology, Lithuania)
15:40 - 15:55	Artistic Woolen Denim made from Baluchi Wool	Characterization and Antibacterial Properties of ZnO Nanoparticles-Coated Cotton Fabrics	Bioactive waterborne polyurethane emulsions with biomedical potential as functional finishes: An approach in sustainable textiles
	Syed Bilal Ahmad, Artistic Millinirs	Ms. Zeinab A. Suliman (Moi University, Kenya)	Dr. Noureen Arshad (Liberty Mills, Karachi)
15:55 - 16:10	Organic Cotton Market and Role of Organic Cotton	Electromagnetic interference shielding materials: recent	Denim Sustainability and Automation By Using Laser
	Accelerator	progress, structure design, and future perspective	Processing Technology
	Mr. Asif Mehmood (OCA)	MS. Ayesha Naseer (University of Agriculture)	Mr. Muhammad Shahzad (PTUT)
16:10 - 16:25	Nurturing the Land: Strategies for Soil Health in Organic Cotton Production in Pakistan	Grapehene: Pioneering the Next Frontier in Smart Textile Applications	Phosphorus and nitrogen-rich oligomeric structures as durable, antibacterial & formaldehyde-free flame-
	Prof. Abdul Wakeel (Universty of Agriculture)	Dr. Muhammad Haroon Rashid (NTU)	Mr. Muhammad Shoaib (NTU)
16:25 - 16:40	Melt Spinning of Recycled functional polyester fibers	Effect of Electronic beam irradtion on cotton fabric treated with chitosan	Development of Sustainable Hydrophilic Azadirachta indica loaded PVA Nanomembranes for Cosmetic Facemask Applications
	Dr. Muslim Rehman/ Mr. Safeer Abbas (NTU)	Dr. Ahmed Mosaad (Benha University, Egypt)	Mr. Rizwan Tahir (NTU)
16:40 - 17:40		Closing Ceremony	

March 06, 2024		
Textile (Circularity) Innovation Exhibition		
9:30 - 10:30	Inauguration Ceremony/ Visit of Chief Guest / VIP delegates	
10:30 - 15:30	Visit of Jury for Evaluation	
10:30 - 16:40	Open to public for Visit	
16:40 - 17:40	Closing Ceremony /Conferment of NTU-Interloop Innovation Awards	

March 06, 2024 10:30 - 15:30 **Poster Presentation Session**





Supporting Bodies