THE 92ND TEXTILE INSTITUTE
WORLD CONFERENCE
PROGRAMME

3rd - 6th July 2023
World President’s Welcome

As World President of the Textile Institute I welcome you to The 92nd Textile Institute World Conference (TIWC 2023) which this year is being hosted by Conference Chairman Prof Parik Goswami CText FTI, the School of Arts and Humanities, and the Technical Textiles Research Centre (TTRC) at the University of Huddersfield, UK.

The conference theme, ‘Sustainability of the Textile and Fashion Supply Chain – Transitioning to Zero Carbon and Zero Waste’, is focused on identifying the current scenario as well as emerging sustainable practices and solutions throughout the whole supply chain of textile and fashion products, starting from raw materials to manufacturing processes, distribution and retailing, use by consumers and up to the end-of-life phases.

TIWC 2023 is the first international conference The Textile Institute has held since the COVID pandemic and it is a pleasure to welcome you all in person to this special event. The conference is an opportunity to network and share knowledge, discuss and make plans and to leave the conference with firm actions to transition to zero carbon and zero waste as set out by the TIWC 2023 theme.

The Textile Institute brings together designers, engineers, innovators, researchers, and practitioners from all textile and associated industries. I hope that this conference will help you to seek out new partnerships, collaborations, new friends, and work together to find solutions.

Malgorzata Zimmniewska
TI President
The Textile Institute
Conference Chairman’s Welcome

Dear Delegates,

On behalf of the organising committee, I warmly welcome you to the 92nd Textile Institute World Conference (TIWC) 2023 hosted by the University of Huddersfield.

The University of Huddersfield is dedicated to expanding the frontiers of human knowledge and aim to provide an exceptional environment for the development of researchers by encouraging multidisciplinary concentrations of research excellence such as institutes and research centres that are capable of providing first-class resources and attracting leading international collaborators. Over the last decade the University has won a number of awards and titles for its outstanding record for world-class teaching and developing students as independent learners and critical thinker. Some of the awards include the Times Higher Education University of the Year, and the first Global Teaching Excellence Award. Alongside, the University also has a growing reputation as a leader in the field of enterprise. In 2012 the University was awarded the prestigious Times Higher Education Entrepreneurial University of the Year and followed this up in 2013 and 2022 when it was awarded Queen’s Awards for Enterprise: International Trade. We pride ourselves as being successful, global, and modern.

Indeed, the theme of this conference ‘Sustainability of the Textile and Fashion Supply Chain – Transitioning to Zero Carbon and Zero Waste’ is to address the biggest contemporary challenge that we face in today’s world.

After oil and gas, the textile industry is the second most polluting industry globally and whilst initiatives such as Textiles 2030 in the UK are already causing consumers and industry to question what the future fashion-textile sector will look like as we head towards net zero, there is still a great opportunity to reimagine the wider textile landscape. Afterall, the global textile market was valued at $993.6 billion in 2021 and is expected to grow at a compound annual growth rate of 4.0% from 2022 to 2030 and it will need strong leadership and initiatives to transition towards our Net Zero goal. Contrary to the popular believe, the fashion and textile industry has a huge impact even on the UK economy. In 2021, the industry generated a £62 billion gross value-added contribution to the UK’s economy, supporting 1.3 million jobs and £23 billion in total tax revenue to the UK treasury.

However, whilst the industry makes enormous contribution to the economic growth and labour market engagement, it is also costly to our climate and ecosystem. It produces 8-10% of global CO2 emissions, consumes 79 trillion litres of water per year, lead to ~20% of industrial water pollution from textile dyeing and other chemical processing, contributes to ~35% of oceanic primary microplastic pollution and produces >92 million tonnes of waste per year. Achieving net zero by 2050 is the biggest challenge the industry face today. Every challenge brings opportunities, but it will require all stakeholders from around the world to work together.

The ethos of this conference, hence, is solution-driven involving different stakeholders from divergent fields instead of just being subject-driven. Where best to host such a conference than Huddersfield in West Yorkshire!
West Yorkshire is not only the centre of the UK textile industry, but arguably the longest established industrial cluster in the world, with the biggest concentration of textile activity in the UK. It is also a place of unparallel scenic beauty. As the popular saying, “All work and no play doesn’t just make Jill and Jack dull, it kills the potential of discovery, mastery, and openness to change and flexibility and it hinders innovation and invention”, so please take some time to explore Huddersfield, and its beautiful surroundings. Based at the foothills of the Pennines and river Calder in the northeastern outskirts of the town, the landscape has exceptional scenic beauty! The rivers around the town provided soft water required for the textile industry during the early Victorian era making it a prominent mill town. Castel Hill is my particular favourite spot, but there are many more to explore. Please feel free to ask me and my colleagues and you will get a lot of suggestions.

I would take this opportunity to thank my colleagues at the University of Huddersfield and from The Textile Institute for their teamwork, collaboration and tireless work for this event. I am not mentioning any names in the fear of missing someone, but you know who you are and how much I appreciate all your contribution to this event. I would also like to include and thank the UK Fashion and Textiles Association for their amazing support with the conference.

On behalf of the organising committee, we would like to thank all of the sponsoring organisations for providing their generous support. A special thanks to our media and knowledge partners.

While concluding, I would like to take the opportunity to welcome each one of you and express my gratitude to the conference keynote speakers, session keynotes, paper and poster presenters, workshop conductors and participants for their contributions who are the foundation of this conference.

I am confident that you will all find this conference interesting, and a learning platform to collaborate with like-minded colleagues. Enjoy your time at the conference and in Huddersfield!

Professor Parik Goswami
Conference Chairman
Sponsors

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

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Committee

Conference Chair:
Prof Parik Goswami
University of Huddersfield, UK

Organising Committee:
Prof Parik Goswami  University of Huddersfield, UK
Dr Andrew Hewitt  University of Huddersfield, UK
Rachel Mountford  University of Huddersfield, UK
Kate Melaugh  University of Huddersfield, UK
Nicola Chiles  University of Huddersfield, UK
Nicola Redmore  University of Huddersfield, UK
Lorna Ingram  University of Huddersfield, UK
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Tim Smith  University of Huddersfield, UK
Dr Sohel Rana  University of Huddersfield, UK
Dr Devabrata Paramanik
Bill Macbeth  University of Huddersfield, UK
Martin Jenkins  University of Huddersfield, UK

Programme Committee:
Long Lin  University of Leeds, UK
Prof Stephen Russell  University of Leeds, UK
Abhijit Mujumdar  Indian Institute of Technology, India
Amit Rawal  Indian Institute of Technology, India
Adam Mansell  UK Fashion and Textile Association, UK
Prasad Potluri  University of Manchester, UK
Amanda McLaren  AW Hainsworth, UK
Alan Williams  Camira Fabrics, UK
Steve Westland  University of Leeds, UK
Kevin Almond  University of Leeds, UK
Prof Elizabeth Barnes  Manchester Metropolitan University, UK
Abdel-Fattah Seyam  NC State University, USA
Sanjay Gupta  World University of Design, India
Dr Rudrajeet Pal  University of Borås, Sweden

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

Special thanks to all of our staff and students at the University of Huddersfield who have helped to make this conference possible.
Programme

Monday 3rd July

15:00 – 17:00: Early Registration - Barbara Hepworth Building.
Beverages & cakes

Tuesday 4th July

08:00 – 09:00: Registration – Barbara Hepworth Building.
Welcome refreshments – Level 3.
09:00 – 09:15: Level 3 – Welcome - Prof. Parik Goswami, University of Huddersfield.
09:15 – 09:25: Level 3 – Conference Opening - Tracy Brabin, Mayor of West Yorkshire.
09:25 – 09:40: Level 3 – Opening address - Malgorzata Zimniewska, Textile Institute World President.
09:40 – 10:05: Level 3 – Keynote speech - Sean Tindale, Polygiene.
10:05 – 10:30: Level 3 – Keynote speech - Kate Goldsworthy, University of the Arts London.
10:30 – 10:50: Morning break & refreshments – Level 3

Parallel Session 1: 10:50 – 12:30

Level 3
Natural Fibres & Biomaterials (1)
Session Chair - Adam Mansell

Jane Scott
Newcastle University, UK
THE LIVING TEXTILES ECOSYSTEM: A LOCAL TEXTILE BIOFABRICATION STRATEGY.

Athanasios Angelis-Dimakis
University of Huddersfield, UK
ASSESSING THE ENVIRONMENTAL IMPACT OF RECYCLED WOOL TEXTILES.

Anna Kicińska-Jakubowska
Institute of Natural Fibres and Medicinal Plants-National Research Institute, Poland
ACOUSTIC AND THERMAL INSULATION MATERIALS DEVELOPED FROM WASTE BAST FIBERS AND LOCAL SHEEP WOOL.

Lynn Wilson
University of the Arts London, UK
A REVIEW OF THE UK WOOL SECTOR.

Subhadeep Paul
University of Huddersfield, UK
STRUCTURE-PROPERTY RELATIONSHIPS OF WOOL FROM COARSE FIBRE BREEDS OF SHEEP IN UNITED KINGDOM.
Level 4
Technical Textiles & Composites (1)
Session Chair - Kate Goldsworthy

Mangala Joshi (Session Keynote)
Indian Institute of Technology
A SUSTAINABLE APPROACH: RECOVERED SILK SERICIN BIOMACROMOLECULE AND ITS REUSE AS FILMS AND NANOFIBERS FOR BIOMEDICAL APPLICATION.

Jenny Banks
National Composites Centre, UK
COLLABORATIVE OPPORTUNITIES FOR TEXTILES IN UNLOCKING A CIRCULAR COMPOSITES INDUSTRY.

Shuchita Tomar
Indian Institute of Technology
STUDY ON CERIUM OXIDE-BASED TPU NANOCOMPOSITE FILMS FOR IMPROVED WEATHER-RESISTANCE PROPERTY.

Bharti Rana
Indian Institute of Technology
UV PROTECTION AND GAS BARRIER PERFORMANCE OF ZINC STANNATE BASED TPU NANOCOMPOSITES.

Sajida Gordon
Nottingham Trent University, UK
DECARBONISING BY CAPTURING EFFICIENT TEXTILE DATA ENABLING IMPROVEMENT ACTIONS IN ACHIEVING ZERO CARBON.

Create Lab
Business Models & Supply Chain (1)
Session Chair - Malgorzata Zimniewska

Dr Phoebe Apeagyei
Manchester Metropolitan University
‘SUSTAINING FASHION’ HOW CAN DESIGN COMMUNICATION HELP?

Guy McKelvey
University of Huddersfield, UK
AN INVESTIGATION INTO THE TRANSPOSING OF FASHION COMMUNICATION AND BRANDING CONCEPTS WITHIN THE METAVERSE FROM A CONSUMER PERSPECTIVE FOR STREETWEAR BRANDS.

Patrick Roth
Natific AG, Switzerland
TRANSPARENCY IN TEXTILE SUPPLY CHAIN – WHY REAL, ACCURATE DATA IS ESSENTIAL.

Sören Gry
August-Wilhelm Scheer Institute, Germany
TOWARDS AN AI BASED RECOMMENDATION SYSTEM FOR SUSTAINABLE RETURN MANAGEMENT IN TEXTILE SUPPLY CHAIN.

Charles Ross
Performance Sportswear Design, RCA, UK
REGENERATIVE AGRICULTURE APPLIED TO FIBRES. WILL THIS FLIP APPAREL’S REPUTATION FOR BEING BAD?

Drop-in Textile Institute Special Interest Session 13:00 – 13:30 (Level 3).
Drop-in at The Maker Space (Level 3) with the University of Huddersfield Enterprise Team.
Atrium Exhibition: Textiles Testing Space: 3D Printed Textiles - Katrina McLaughlin, Dr Jade Lord, Elinor Sykes and Melissa Fletcher.
Parallel Session 2: 14:00 – 15:20

Level 3
Technical Textiles & Composites (2)
Session Chair - Athanasios Angelis-Dimakis

Deepti Gupta (Session Keynote)
Indian Institute of Technology
LIGNOCELLULOSIC BIOMASS AS A SOURCE OF INDUSTRIAL ABSORBENTS AND ADSORBENTS.

Salem Aldosari
Cranfield University, UK
MESOPHASE PITCH POLYETHYLENE AND GRAPHENE BLEND FIBRES WITH IMPROVED STRAIN TO FAILURE AS POTENTIAL CARBON FIBRE PRECURSORS.

Deepali Singhee
Jadavpur University, India
A COMPARATIVE STUDY ON PHOTO-DEGRADATION AND PHOTO-YELLOWING CHARACTER OF JUTE FABRICS TREATED WITH SELECTED UV-ABSORBERS AND ANTIOXIDANTS USING EXHAUST (IN BLEACH-BATH) AND PAD-BATCH-DRY PROCESS.

Juneyoung Minn
Sookmyung Women's University, South Korea
SCREENING FLAME-RETARDANTS FROM NATURAL SOURCES FOR BACTERIAL CELLULOSE FABRICS.

Level 4
Education & Policy (1)
Session Chair - Jo Conlon

Sanjay Gupta (Session Keynote)
World University of Design, India
ADAPT OR GET LEFT: PREPARING FASHION DESIGN STUDENTS FOR THE ZERO-Carbon Future.

Rohana U Kuruppu
Sri Lanka Technological Campus Research University
DESIGNING A CURRICULUM TO DEVELOP A SUSTAINABLE WORKFORCE FOR THE TEXTILE/CLOTHING INDUSTRY.

Collette Paterson
University of Edinburgh, UK
GROWING, HARVESTING AND PROCESSING FLAX TO INSTIGATE FIBRE, MATERIAL AWARENESS, COMMUNITY AND CHANGE.

Abu Sadat Muhammad Sayem
Manchester Metropolitan University, UK
ECO-DESIGN FRAMEWORK FOR REDUCING FABRIC WASTE AND CONSUMPTION DURING FAST FASHION PRODUCTION.

Create Lab
Garment Research (1)
Session Chair - Rudrajeet Pal

Zeeshan Azam
University of Manchester, UK
Sustainable Sports Compression Garment Production through Seamless Knitting.

Kasey Hatch
University of Manchester, UK
Developing Sizing Methodology for Women's Sports Compression Garments.
Parallel Session 3: 15:40 – 17:00

Level 3
Textile Coloration & Processing (1)
Session Chair - Abu Sadat Muhammad Sayem
Russell Thorpe (Session Keynote)
VeriVide Limited, UK
TWINNED TECHNOLOGIES FOR THE CONNECTED WORLD.

Buddy Penfold and Sally Gaukrodger – Cowan
De Montfort University, UK
TASSEL LEARNING: VALUING SKILLS THROUGH A LONG TIME LENS.

Jason Kent
British Textile Machinery Association
THE TEXTILE MACHINERY COMPLEXITY INDEX FORMING CIRCULAR INDUSTRIAL REVOLUTIONS.

Level 4
The Circular Economy & LCA (1)
Session Chair - Chenyu Du
Jo Conlon
University of Manchester, UK
EDUCATING FOR CIRCULARITY – ESTABLISHING A FRAMEWORK TO IDENTIFY AND ADDRESS THE PRIORITY KNOWLEDGE GAPS IN FASHION EDUCATION.

Mazed Islam
University of Southampton, UK
ENVIRONMENTAL SUSTAINABILITY OF FASHION PRODUCT MADE FROM POST-CONSUMER WASTE.

Rudrajeet Pal
University of Borås, Sweden
TOWARDS A DYNAMIC DECISION SUPPORT SYSTEM FOR CONFIGURING POST-CONSUMER TEXTILE-TO-TEXTILE RECYCLING VALUE CHAIN.

Lynn Wilson
Circular Design Scotland, UK
BUILDING A CIRCULAR MATERIALS REPOSITORY. CONVEYING THE COMPLEXITY OF MATERIALS FOR CIRCULARITY.

Starting Level 0 Reception
Exhibition & tour
Matthew Taylor
University of Huddersfield, UK
Textile Exhibition at Heritage Quay
Leaving Level 0 reception in Barbara Hepworth Building at 15:40
Limited places available, please reserve a place at reception if you wish to attend.
17:05 – 17:10: Level 3 – Closing of Day 1 and details of dinner arrangements -
Andrew Hewitt, University of Huddersfield.
From 18:00: Coaches from University of Huddersfield, Location – Barbara Hepworth Building atrium.
From 19:00: Drinks, dinner and awards at The Venue, Barkisland - return coaches to
University of Huddersfield after the event.

Wednesday 5th July

08:00 – 09:00: Registration – Level 0 at the Barbara Hepworth Building Atrium.
Welcome refreshments – Level 3.
09:00 – 09:40: Level 3 – Keynote event- Atrium Exhibition: Textiles Testing Space: 3D Printed Textiles - Katrina
McLaughlin, Dr Jade Lord, Elinor Sykes and Melissa Fletcher
10:05 – 10:30: Level 3 – Keynote speech – Andrew Martin, Sustainable Apparel Coalition.
Chaired by: Jess Power, University of Salford

Parallel Session 4: 10:50 – 12:30

Level 3
The Circular Economy & LCA (2)
Session Chair - Bhupendra Singh Butola
Rachel Kelly
Manchester Metropolitan University, UK
CLOSING THE LOOP THROUGH CIRCULAR DESIGN EDUCATION.

Laetitia Forst
University of the Arts London, UK
BIODERASED MATERIALS LIFECYCLES: LEARNING FROM THE HERESWear SAMPLE COLLECTION.

Teena Antony
London College of Fashion, UK
POST-CONSUMER POLYESTER WASTE RECYCLING IN EUROPE; CHALLENGES AND OPPORTUNITIES OF
CLOSED-LOOP PRACTICES.

Mazed Islam
University of Southampton, UK
EMERGING CONCEPTS AND IMPLICATIONS OF CIRCULAR ECONOMY AND SUSTAINABILITY TERMINOLOGIES
IN FASHION AND TEXTILES.

Dr Saniyat Islam
RMIT University, Australia
A CRITICAL REVIEW OF LIFE CYCLE ASSESSMENT OF FASHION PRODUCTS.

Level 4
Natural Fibres & Biomaterials (2)
Session Chair - Katie Greenyer
Jane McCann
Consultant, UK
HOW TO GUIDE DESIGNERS IN ADOPTING A MORE SUSTAINABLE, TEXTILE ORIENTED,
PRODUCT DEVELOPMENT PROCESS?

Prabhuraj Venkatraman
Manchester Metropolitan University, UK
EVALUATION OF ANTIMICROBIAL PROPERTIES OF DENIM FABRIC FINISHED WITH
PLANT-BASED NANO-EMULSIONS.

Abu Sadat Muhammad Sayem
Manchester Metropolitan University, UK
FRAMEWORK FOR ENVIRONMENTALLY SUSTAINABLE FASHION AND TEXTILE PRODUCTION TO ACHIEVE
UNITED NATION (UN) SUSTAINABLE DEVELOPMENT GOAL (SDG) 12.
Janet Wilson
Classic & Modern Fabrics, UK
ARE TEXTILE GRADUATES ADEQUATELY PREPARED FOR TODAY’S RAPIDLY CHANGING WORKPLACE?

Monika Rom
University of Bielsko-Biala
WOOL FROM LOCAL SHEEP BREEDS - ZERO WASTE PLAN FOR LOCAL COMMUNITIES.

Create Lab
Technical Textiles & Composites (3)
Session Chair - Stephen Russell

Elizabeth Amir
Shenkar College, Israel
SURFACE FUNCTIONALIZATION OF TEXTILE AS A TOOL FOR FABRICATION OF SMART FABRICS.

Goutam Bar
National Institute of Fashion Technology, India
EXTRACTION OF TEXTILE GRADE BAUHINIA VAHLII FIBRE AND CHARACTERISATION OF ITS ESSENTIAL PROPERTIES.

Kuldip Singh
Indian Institute of Technology
OPTIMUM CONDITIONS FOR THE CARBONIZATION OF KEVLAR FABRIC FOR ELECTROMAGNETIC INTERFERENCE SHIELDING.

Debra Carr
DSTL
EFFECT OF QUILTING THREAD AND PITCH ON BALLISTIC PROTECTIVE PERFORMANCE OF PARA-ARAMID FABRIC.

Saikat Ghosh
University of Huddersfield, UK
IN-SITU SYNTHESIS OF ZNO NPS USING NITRATE SALT.

Parallel Session 5: 13:30 – 15:10

Level 3
Business models & supply chain (2)
Session Chair - Abhijit Majumdar

Veronika Kapsali (Session Keynote)
London College of Fashion, UK
TRANSITIONING TO ZERO WASTE AND NET ZERO: LESSONS FROM BIOLOGY.

Anja Connor-Crabb
University of Leeds, UK
AN INVESTIGATION INTO THE IMPACTS OF BREXIT, COVID-19 AND CLIMATE CHANGE ON THE UK FASHION AND TEXTILE INDUSTRY.

Microfibre Research
Anna Marchiani – Reckitt & Helen Hill
Helen Hill – Nottingham Trent University
USING A LAUNDRY BOOSTER TO REDUCE THE ENVIRONMENTAL FOOTPRINT AND ENHANCE CLOTHING LONGEVITY.


**Level 4**

**Textile Coloration & Processing (2)**

Session Chair - Elizabeth Gaston

Jeroen Schotsaert (Session Keynote)
AGC Plasma Technology Solutions, Belgium

GLASS MEETS TEXTILES - THE USE OF VACUUM PLASMA COATING FOR THE FUNCTIONALISATION OF TEXTILES.

Robert Mather
Heriot-Watt University, UK

Robert Dewhurst
DISSPELLING DOUBTS ABOUT TEXTILE PLASMA TREATMENTS.

Jasminder Kaur
Banaras Hindu University, India

SUSTAINABILITY APPROACH OF BANARASI BROCADE.

Peter Vickers
Vickers Oils, UK

SUSTAINABILITY: IMPACT ON TEXTILE LUBRICATION.

**Katrina Mclaughlin**

University of Huddersfield, UK

DO IT YOURSELF 3D PRINTED TEXTILES. AN OPEN-SOURCE GUIDE TO GET YOU STARTED

Embroidery Room on Level 4 of Barbara Hepworth Building from 13:30-14:15

Fifteen places available, please reserve a place at the Information Point if you wish to attend.


**Parallel Session 6: 16:00 – 17:20**

**Level 3**

**Natural Fibres & Biomaterials (3)**

Session Chair - Mark Jarvis

Laura Solomon
University of the Arts London, UK

EMBEDDING LIFECYCLE ASSESSMENT INTO THE INNOVATION PROCESS FOR A NEW BIODEGRADABLE TEXTILE MADE OF PINEAPPLE LEAF FIBRE.

Prabhuraj Venkatraman
Manchester Metropolitan University, UK

POTENTIAL OF NATURAL SUSTAINABLE BIOPOLYMERS WITH ANTIMICROBIAL PROPERTIES.

Malgorzata Zimniewska
Institute of Natural Fibres and Medicinal Plants-National Research Institute, Poland

LINEN AND HEMP FOR SUSTAINABLE TEXTILES.
Level 4
Technical Textiles & Composites (4)
Session Chair - Holly Morris

Bhupendra Singh Butola (Session Keynote)
Indian Institute of Technology
OPTIMISATION OF DISENTANGLLED POLYETHYLENE LAMINATE STRUCTURE FOR SOFT
BODY ARMOUR APPLICATIONS.

Hyunjin Kim
Sookmyung Women's University, South Korea
DEVELOPING SUSTAINABLE BACTERIAL CELLULOSE COMPOSITES USING MARINE POWDERS.

Debarati Bhattacharyya
Indian Institute of Technology
A STUDY ON THE CREEP BEHAVIOUR OF OZONE TREATED JUTE FABRIC/EPOXY COMPOSITES FILLED WITH
OZONIZED AND PULVERIZED SISAL FIBRES.

Charlotte Goldthorpe
University of Huddersfield, UK
HANDS-ON LEATHERWORKING WORKSHOP
Embroidery Room on Level 4 of Barbara Hepworth Building
Eight places available, please reserve a place at the Information Point if you wish to attend.

17:25 – 17:30: Level 3 – Closing of Day 2 and details of show arrangements.
Nicola Redmore, University of Huddersfield.

From 17:45: Drinks reception and canapes at Oastler Building followed by Fashion & Costume show.

Thursday 6th July

08:00 – 09:00: Registration - Barbara Hepworth Building Atrium
Welcome refreshments – Level 3.
09:00 – 09:15: Welcome – Andrew Hewitt

Parallel Session 7: 09:20 – 10:40

Level 3
Defined Applications
Session Chair - Andrew Hewitt

Adrian Wilson (Session Keynote)
Journalist, UK
THE UNIQUENESS OF DISPOSABLE NONWOVENs FOR HYGIENE AND THE CASE FOR
THEIR SEPARATE CATEGORISATION.

Elizabeth Gaston
Northumbria University, UK
MODULAR KNITTED ARCHITECTURE

Holly V Morris
Pulvertaft Hand Centre, UK
MEDICAL TEXTILES IN THE GREENER OPERATING THEATRE.

The Circular Economy & LCA (3)

Hannah Auerbach George
Victoria and Albert Museum, UK
HARNESSING HISTORICAL TECHNOLOGIES IN THE DEVELOPMENT OF A CIRCULAR TEXTILE MODEL: THE
FUTURE OF REGENERATED PROTEIN FIBRES.
Level 4
Technical Textiles & Composites (5)
Session Chair - Deepti Gupta

Jane Wood (Session Keynote)
University of Manchester, UK
COMMON APPAREL PERFORMANCE CHARACTERISTICS OF BACTERIAL CELLULOSE GROWN FROM KOMBUCHA.

Shubham Srivastava
Madhav Institute of Technology and Science, India
RECYCLED PARA-ARAMID YARN FOR PROTECTION AGAINST THERMAL HAZARDS.

Malindu Ehelagasthenna
Nottingham Trent University, UK
A NEURAL NETWORK APPROACH FOR PREDICTING THE OPTIMUM DESIGNING PARAMETERS FOR AN ACTIVE COMPRESSION TEXTILE.

Anna Doersam
University of Manchester, UK
TEXTILE-BASED SCAFFOLDS OF ELECTROSPUN PCL-PLA CORE-SHEATH NANOFIBER YARN FOR TISSUE ENGINEERING APPLICATIONS.

Create Lab
Garment Research (2)
Session Chair - Nicola Redmore

M S Cheema
University of Manchester, UK
DEVELOPMENT OF NONWOVEN GARMENT BY ADOPTING SPECIAL TECHNIQUE OF PATTERN AND 3D TECHNOLOGY, ENABLED NONWOVEN GARMENT ACCEPTABLE IN THE GARMENT INDUSTRY.

Ruqey Alhassawi
University of Manchester, UK
ANALYSIS OF ALGORITHMIC CLUSTERING OF 3D SCAN DATASET TO DEVELOP GARMENT SIZE.

Kristina Brubacher
University of Manchester, UK
THE SPORTS COMPRESSION GARMENT USER NEEDS MODEL: A NEW MODEL FOR USER-CENTRED DESIGN.

Phoebe Apeagyei
Manchester Metropolitan University, UK
SUSTAINABLE PROCEDURES IN COLLECTING ANTHROPOMETRIC DATA: EFFICACY IN REMOTE BODY MEASUREMENT OF SCHOOL CHILDREN FOR CLOTHING SIZING.

11:15 – 12:25 : Panel discussion on the roadmap to Net-Zero chaired by Professor Parik Goswami. The panel members will be Mr Adam Mansell (CEO UKFT), Mr Alan Williams (CEO Camira Fabrics), Dr Richard Davies (Innovation, Technical, and Design Director, A W Hainsworth & Sons Ltd), and Professor Kate Goldsworthy (Chair of Circular Design & Innovation, University of the Arts London).
13:00 – 13:45 : Lunch – Barbara Hepworth Building.
Drop-in at The Maker Space (Level 3) with the University of Huddersfield Enterprise Team.
13:45 – 14:10 : Level 3 – Keynote speech – Abhijit Majumdar
Parallel Session 8: 14:15 – 15:00

Level 3
Garment Research (3)
Session Chair – Jason Kent

Devabrata Paramanik
University of Huddersfield, UK
EXPLORING MOTION CAPTURE TECHNOLOGY TO TRANSFORM BOTH THE METHOD OF CREATING DESIGN AND PATTERN CUTTING FOR SUSTAINABLE FASHION DESIGN.

Level 4
Fashion & Textiles in Mourning
Session Chair – Adrian Wilson

Kevin Almond
University of Leeds, UK
THE DECLINE OF FEMALE MOURNING WEAR: A CASE STUDY ANALYSIS OF FREDERIC FORSTER’S MOURNING WAREHOUSE 1849-1923 IN LEEDS, UK.

Claire Barber
University of Huddersfield, UK
CRAFTING SORROW: THE USE OF TEXTILES IN CONTEMPORARY ART PRACTICE TO PERFORM MOURNING.

Charlotte Goldthorpe
University of Huddersfield, UK
HANDS-ON LEATHERWORKING WORKSHOP
Embroidery Room on Level 4 of Barbara Hepworth Building
Eight places available, please reserve a place at the Information Point if you wish to attend.

15:00 – 15:10: Conference Closing Ceremony
# Conference Poster List

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<td>Guy McKelvey</td>
<td>University of Huddersfield</td>
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WOVEN in Kirklees is a biennial festival that celebrates innovation in textiles across Kirklees, Yorkshire. The theme of this year's programme is sustainability – with core strands that focus on reducing waste and environmental impact whilst retaining creativity.

Kirklees is built on the textiles industry, from humble domestic spinning and weaving beginnings to large-scale mill production and trading; WOVEN celebrates it all. The programme is a true reflection of the district's textile heritage and cutting-edge developments in industrial production, university research and creative expression. WOVEN's themes will also explore generations of innovators, connecting the past, present and future of textiles.

There have been several long-term programmes that have culminated in this year's festival Growing Colour Together a programme of 7 artists in residency across three areas of Kirklees. The artists have helped each area to develop a natural dye garden and to understand how those plants can be used to make beautify art works as well as refreshing old textiles for future use. These art works have been displayed in each of the areas for their community to showcase as a core part of the WOVEN festival programme. Funded by Arts Council England and The Mayors Safer Communities Fund.

Mission to Mend Roadshows aim to address pressing issues for people and the planet, drawing inspiration from the rich unique textile heritage Kirklees. Mission to Mend has been travelling across Kirklees inviting the local community to come together and learn more about how they can be more sustainable with their garments, repairing instead of replacing for the future. Focusing on teaching textile repair skills to instil a sustainable outlook of 'buying once, buying well', for future generations. Supported by National Heritage Lottery Funding.

Continuing the theme of celebrating the stitch Quilted: Community, Creativity and Care – is a free exhibition exploring the powerful art of community quilt making, from the Threads of Survival quilts made during the COVID pandemic to quilts stitched by individuals and communities in Kirklees alongside local professional quilters and community quilts make by talented community makers in Kirklees.

The festival final event on the 8th of July is in partnership with the University of Huddersfield. Closing the festival and looking forward is Textile Futures, a two-day event featuring a series of talks, workshops and meet and greets, exploring the latest innovations and trends in the world of textiles, as well as the vast career opportunities the industry brings to young people.

#WOVEN23 #GrowingColourTogether
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20 | THE 92nd TEXTILE INSTITUTE WORLD CONFERENCE PROGRAMME
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