

# Fashion-Textiles-Wearables (FTW 2026)

## FTW 2026 Programme

Day 1 (Monday, 13 April 2026)

| Day 1 |   | 28 April 2025   First Floor Hall, King's House Conference Centre, Manchester, M1 7HB                                                                                                                                                                                                                                                                                         |
|-------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:30  |   | Registration and Arrival Tea & Coffee                                                                                                                                                                                                                                                                                                                                        |
| 10:00 |   | <b>Plenary Session 1 (Textile Innovation)</b><br><b>Welcome by Conference Chair</b><br><i>Sadat Sayem, Editor, The Textile Institute Professional Publication Series</i>                                                                                                                                                                                                     |
|       | 1 | <b>Opening Address</b><br><i>Professor Jess Power, Chair of The Textile Institute</i>                                                                                                                                                                                                                                                                                        |
|       | 2 | <b>Keynote 1 - Think to Innovate – Why the Future of Textiles Depends on the Quality of Our Thinking</b> , Jason Kent, Chief Executive Officer, British Textile Machinery Association (BTMA)                                                                                                                                                                                 |
| 10:55 |   | Break                                                                                                                                                                                                                                                                                                                                                                        |
| 11:00 |   | <b>Technical Session 1A (Digital Fashion Innovation)</b><br><i>Chair - Professor Jess Power, Chair of The Textile Institute</i>                                                                                                                                                                                                                                              |
|       | 3 | <b>How Virtual Fashion Experiences Realize: Digital Materiality and Tactility</b><br><i>Se Jin Kim, Hanyang University, Korea</i>                                                                                                                                                                                                                                            |
|       | 4 | <b>Immersive Storytelling Through AR Textiles, AI and Digital Fashion</b><br><i>Jacqueline Toal, Dundalk Institute of Technology, Ireland</i>                                                                                                                                                                                                                                |
| 11:55 |   | Break                                                                                                                                                                                                                                                                                                                                                                        |
| 12:00 |   | <b>Technical Session 1B (Sustainable Textile &amp; Fashion)</b><br><i>Chair -</i>                                                                                                                                                                                                                                                                                            |
|       | 5 | <b>Labelling structure for textile products considering differentiated eco-design aspects</b><br><i>Sabrina Mauter<sup>1</sup>, Dominique C. Adolphe<sup>2</sup>, Markus Muschkiet<sup>1,3</sup></i><br>1) Hochschule Niederrhein University of Applied Sciences, 2) Université de Haute-Alsace, France<br>3) Fraunhofer Institute for Material Flow and Logistics, Germany, |
|       | 6 | <b>Examining The Influences of Ghanaian Consumer Care Practices on Garment Longevity</b> ,<br><i>Josephine Opoku, Akosua Mawuse Amankwah and Ebenezer Kofi Howard</i><br><i>Kwame Nkrumah University of Science and Technology, Ghana</i>                                                                                                                                    |
| 13:00 |   | Lunch                                                                                                                                                                                                                                                                                                                                                                        |



BRITISH TEXTILE MACHINERY ASSOCIATION



The Textile Institute



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|       |    |                                                                                                                                                                                                                         |
|-------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00 |    | <b>Technical Session 1C (Textile Innovation)</b><br><i>Chair – Jason Kent, Chief Executive Officer, British Textile Machinery Association (BTMA)</i>                                                                    |
|       | 7  | <b>Keynote 2 - Flexible/elastic ceramic nanofibrous materials</b><br><i>Professor Bin Ding, Vice President, Shanghai Polytechnic University</i>                                                                         |
|       | 8  | <b>Nature-Inspired Biodegradable Textile with Integrated Evaporative-Radiative Cooling for Personal Thermal Regulation</b><br><i>Dong Lyu, Siru Chen, Kaixin Lin and Chi Yan Tso, City University of Hong Kong</i>      |
| 14:55 |    | <b>Break</b>                                                                                                                                                                                                            |
| 15:00 |    | <b>Technical Session 1D (Textile Innovation)</b><br><i>Chair - TBC</i>                                                                                                                                                  |
|       | 9  | <b>Innovations in Infrared Coating Technologies for Yarns</b><br><i>Liam O'Neill, Roaches</i>                                                                                                                           |
|       | 10 | <b>Sustainable Textile Engineering Through Bio-Derived Cellulosic Materials</b><br><i>Aida Fadakarsarkandi, Omid Doustdar, Mingchao Liu and Karl David Dearn, University of Birmingham</i>                              |
|       | 11 | <b>Cationic Microencapsulation of Coconut Oil with CHPTAC and Ethyl Cellulose for Eco-Friendly Thermally Stable Textile Coatings</b><br><i>Zarnab Gul, Daiva Milašienė; Kaunas University of Technology, Lithuania.</i> |
| 16:25 |    | <b>Break</b>                                                                                                                                                                                                            |
| 16:30 |    | <b>Technical Session 1E (Fashion Innovation)</b><br><i>Chair -</i>                                                                                                                                                      |
|       | 12 | <b>The Sixth Sense Garment: A State-of-the-Art Framework for Sustainable Neurofashion</b><br><i>Andrew Burnstine, Lynn University, USA</i>                                                                              |
|       | 13 | <b>New motifs for making waves: An update on motif design for optimal performance in women's competitive swimwear</b><br><i>Renee Lamb, Jennie Cook and Jacqueline Mullins, Virginia Commonwealth University, USA</i>   |
| 17:30 |    | <b>End of Day 1</b>                                                                                                                                                                                                     |

# Fashion-Textiles-Wearables (FTW 2026)

## FTW 2026 Programme

Day 2 (Tuesday, 14 April 2026)

| Day 2 |   | 29 April 2025   First Floor Hall, King's House Conference Centre, Manchester, M1 7HB                                                                                                                                     |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00  |   | Arrival Tea & Coffee                                                                                                                                                                                                     |
| 9:30  |   | <b>Plenary Session 2 (Digital Fashion)</b><br><i>Chair - Dr. Sadat Sayem, Editor - The Textile Institute Professional Publication Series</i>                                                                             |
|       | 1 | <b>Keynote 3 - Wearables in Contemporary Design Practice</b><br><i>Professor Carolyn Hardekar, De Montfort University</i>                                                                                                |
|       | 2 | <b>AI + 3D</b><br><i>Elizabeth Brandwood, Style 3D</i>                                                                                                                                                                   |
| 10:25 |   | Break                                                                                                                                                                                                                    |
| 10:30 |   | <b>Technical Session 2A (Sustainable Textile &amp; Fashion)</b><br><i>Chair -</i>                                                                                                                                        |
|       | 3 | <b>What about us? Academics role in cocreating circular ecosystems: Evidence from Circular Textiles and Fashion transitions in the UK</b><br><i>Alaa Abed and Tulin Dzhengiz, Manchester Metropolitan University, UK</i> |
|       | 4 | <b>Adire Symbols in Textile and Fashion Designs: A Yoruba Cultural Perspective</b><br><i>Olayinka Olumide BAKARE and Christianah Yetunde KOLAWOLE, Modibbo Adama University, Nigeria.</i>                                |
| 11:25 |   | Break                                                                                                                                                                                                                    |
| 11:30 |   | <b>Technical Session 2B (Textile Innovation)</b><br><i>Chair -</i>                                                                                                                                                       |
|       | 5 | <b>Research on the Flame Retardant Properties of Bio-Based Materials.</b><br><i>David Zheng, Shandong Aobo Environmental Protection Technology Co., Ltd, China</i>                                                       |
|       | 6 | <b>Coupling Radial Conduction with Radiative Emission: The CAMIC Framework for High-Efficiency Passive Radiative Cooling,</b><br><i>Siru CHEN, Yihao ZHU and Man Ho CHOI; i2Cool Limited, Hong Kong</i>                  |
|       | 7 | <b>Fabrication Strategies and Functionality of Superelastic Electrospun Nanofibrous Aerogels</b><br><i>Fei Wang, Donghua University, China</i>                                                                           |
| 13:00 |   | Lunch                                                                                                                                                                                                                    |

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## FTW 2025 Programme

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|-------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00 |    | <b>Technical Session 2C (Sustainable Textile &amp; Fashion)</b><br><i>Chair –</i>                                                                                                                                                                        |
|       | 8  | <b>Durability and Desirability in the High Street: A Case Study Analysis of Clothing Donated to the Marks and Spencer Archive</b><br><i>Kevin Almond and Judith Simpson, University of Leeds</i>                                                         |
|       | 9  | <b>Integrating repurposing concepts into textile innovation: Humming the Ghanaian eco cottage innovation stories</b><br><i>Theophilous Tweneboah Osei-Bonsu, Naa Omai Sawyerr and Kweku Safo-Ankama<br/>Takoradi Technical University, Ghana</i>         |
| 14:55 |    | <b>Break</b>                                                                                                                                                                                                                                             |
| 15:00 |    | <b>Technical Session 2D (Digital Fashion Innovation)</b><br><i>Chair –</i>                                                                                                                                                                               |
|       | 10 | <b>Understanding User Responses to Virtual Try-On Through Large-Scale and Qualitative Studies,</b> <i>Ian Anderson, Glance AI</i>                                                                                                                        |
|       | 11 | <b>Sensory and Emotional Perception of Pleated Pants: A Comparative Study of Actual and Virtual Representations Focusing on Reflectance</b><br><i>Jisoo Ha<sup>1</sup> and Sujin Lim<sup>2</sup>, 1) Seoul National University, 2) Hongik University</i> |
|       | 12 | <b>Fashion Beyond the Physical: How Has the Framing of Digital Fashion Shaped Its Role in the Fashion Industry?</b> <i>Salma Tallaa, De Montfort University</i>                                                                                          |
| 15:55 |    | <b>Break</b>                                                                                                                                                                                                                                             |
| 16:00 |    | <b>Technical Session 2E (Textile Innovation)</b><br><i>Chair -</i>                                                                                                                                                                                       |
|       | 13 | <b>Adjustable Textile Recycling Machine: Impact of Machine Settings on Fibre Quality</b><br><i>Yunhao Wu, Prasad Potluri, Claudia Henninger, The University of Manchester</i>                                                                            |
|       | 14 | <b>Circular Textiles Under Scrutiny: Performance Trade-offs in Mechanically Recycled Yarns from Post Consumer Textile Waste</b><br><i>Muhammad Sohaib Anas and Daiva Mikucioniene, Kaunas University of Technology, Lithuania.</i>                       |
|       | 15 | <b>Ultrathin Dual-Network Aerogel Metafabric for Efficient Self Sustainable Heating via Dual Air-Gelation Synthesis</b><br><i>Yucheng Tian, Yixiao Chen, Sai Wang, Bin Ding; Donghua University</i>                                                      |
| 16:55 |    | <b>End of Day 2</b>                                                                                                                                                                                                                                      |

# Fashion-Textiles-Wearables (FTW 2026)

## FTW 2026 Programme Day 3 (Wednesday, 15 April 2026)

| Day 3 |   | 30 April 2025   First Floor Hall, King's House Conference Centre, Manchester, M1 7HB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00  |   | Arrival Tea & Coffee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 9:30  |   | <b>Technical Session 3A (Textile Innovation)</b><br>Chair -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|       | 1 | <b>Design of Thermal-wet comfortable and Cooling Wearable Masks via Engineered 2D Nanofibrous Networks for Enhanced Personal Protection</b><br><i>Xinxin Zhang, Ming Yang, Jianyong Yu and, Bin Ding; Donghua University, China</i>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|       | 2 | <b>Design Evaluation of Protective Fabrics for Motorcyclists</b><br><i>Rashmi Thakur, Naveen Kumar Jha, Nandan Kumar, Sanjay R, National Institute of Fashion Technology, Mumbai, India</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10:30 |   | Break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10:35 |   | <b>Technical Session 3B (Wearable Technology Innovation)</b><br>Chair -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|       | 3 | <b>MXene-Enhanced Nanofiber Yarns for Dual-Mode Sensing in Wearable Electronics</b><br><i>Jian Tang<sup>1</sup>, Han Liu<sup>1</sup>, Yuting Wu<sup>2</sup>, Fatemeh Mokhtari<sup>3</sup>, Jizhen Zhang<sup>4</sup>, Ken Aldren S. Usman<sup>5</sup>, Shidong Ma<sup>2</sup>, Tao Yan<sup>2</sup>, Zhijuan Pan<sup>2</sup>, Haibo Xie<sup>1</sup>, Kaichen Xu<sup>1</sup>, Xungai Wang<sup>6</sup>, Joselito M. Razal<sup>6</sup></i><br>1) Zhejiang University, China, 2) Soochow University, China, 3) KU Leuven, Belgium, 4) National Institute for Materials Science (NIMS), Ibaraki, Japan, 5) Deakin University, Australia, 6) The Hong Kong Polytechnic University, China |
|       | 4 | <b>Architectural Strategies for Textile-Integrated Wearable Sensor Systems in Healthcare-Oriented Monitoring</b> , Shivangi Madhavi Harsha <sup>1,2</sup> , Ajay Agarwal <sup>1</sup> and Neeraj Gupta <sup>2</sup> , 1) Indian Institute of Technology, Jodhpur, Rajasthan, India; 2) All India Institute of Medical Sciences, Jodhpur, India.                                                                                                                                                                                                                                                                                                                                  |
|       | 5 | <b>Advancing Hallux Valgus Care: A Review of Data-driven Approaches in Orthoses Design Authors and Co-Authors in correct order</b><br><i>Mei-Ying KWAN<sup>1</sup>, Kit-Lun YICK<sup>1</sup>, Joanne YIP<sup>1</sup>, Chi-Yung TSE<sup>2</sup>; 1) The Hong Kong Polytechnic University, Kowloon, China, 2 Centre for Orthopaedic Surgery, Hong Kong, China.</i>                                                                                                                                                                                                                                                                                                                 |
| 11:55 |   | Break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 12:00 |   | <b>Technical Session 3C (Sustainable Textile &amp; Fashion)</b><br>Chair - TBC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|       | 6 | <b>Development of a basic structure for the recovery of sorted laundry textiles to a closed cycle based on practical transfer</b><br><i>Lisa Gudehus<sup>1</sup>, Sabrina Mauter<sup>1</sup> and Markus Muschkiet<sup>1,2</sup>; 1) Hochschule Niederrhein University of Applied Sciences, Germany, 2) Fraunhofer Institute for Material Flow and Logistics, Germany</i>                                                                                                                                                                                                                                                                                                         |
|       | 7 | <b>From Cabin to Circularity: Credible Upcycling of Aviation Textiles for Sustainable Fashion</b><br><i>N. Jammoul<sup>1</sup> and G. Soliman<sup>2*</sup>; 1) The University of Manchester, Dubai, UAE, 2) The University of Manchester, UK</i>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 13:00 |   | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|       |                                                                                                                                                                                                                                                                                                               |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00 | <b>Technical Session 3D (Textile Innovation)</b><br><i>Chair - TBC</i>                                                                                                                                                                                                                                        |
| 8     | <b>Mechanically robust ceramic nanofiber materials</b><br><i>Cheng Liu<sup>1</sup> and Bin Ding<sup>1,2</sup>,<br/>1) Donghua University, 2) Shanghai Polytechnic University</i>                                                                                                                              |
| 9     | <b>Three-dimensional Woven Structural Composites for Advanced Engineering Applications</b><br><i>Soumya Chowdhury<sup>1,2</sup>, Jost Göttert<sup>1</sup>, and Bijoya Kumar Behera<sup>1</sup><br/>1) Niederrhein University of Applied Sciences, Germany, 2) Indian Institute of Technology Delhi, India</i> |
| 15:00 | <b>Break</b>                                                                                                                                                                                                                                                                                                  |