



IFKT INTERNATIONAL FEDERATION OF KNITTING TECHNOLOGISTS
IFWS INTERNATIONALE FÖDERATION VON WIRKEREI- UND STRICKEREI-FACHLEUTEN

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Knitting for a Sustainable Future **50th IFKT International Congress Belfast/Ireland 31.08.-2.09.2022**

After several years of online phase, the 50th International Congress of the Federation of Knitting Technologists took place again in attendance. More than 30 participants (online/present) from 11 different nations (Bangladesh, Canada, Croatia, Germany, Ireland, Israel, Romania, Slovenia, Turkey, United Kingdom, USA) took part in the family meeting for mutual exchange. Alison Gault, congress president, and her team created a warm and hospitable atmosphere with a perfect organization of the event.

The topic of the *Knitting for a Sustainable Future* congress was examined from different perspectives in five sessions from the areas of fibre materials, machine development, textile technology, management, further processing and recycling. The abstracts of the various presentations are available at <https://www.ulster.ac.uk/conference/50th-ifkt-international-conference>. Much of the content will be published in a subsequent Scientific Paper at Communications in Development and Assembling of Textile Products, CDAPT, ISSN 2701-939X.

The participants could also get to know the possibilities of the textile department of Ulster University Belfast. The program was completed with a networking evening in the original Titanic construction hall at the Harland & Wolff shipyard and an excursion program on Saturday to the Giants Causeway. The next 51st IFKT Congress is planned in 2024 in Canada.

Program

Thursday 1st September

Shima Seiki. - Simon Peach

Challenges and possibilities for alternative weft insertion methods in warp knitting – new possibilities for new products. - Thomas Mutschler, Prisca Holderied, Julia Klausmann, Lisa Streitenberger, Marie-Ange Bueno, Marcus O. Weber

A computational tool for design, simulation and fabrication of multiple structured knits. - Eyal Sheffer, Yoav Sterman, Tom Shaked, Shoval Nir, Ayelet Karmon

Knitted textiles in logistics – Thermodynamic qualification of knitted spacer fabrics for use as an insulation box insert in the context of refrigerated transport containers. - Julia Klausmann, Prisca Holderied, Thomas Mutschler, Lisa Streitenberger, Dominic Güther, Thomas Freitag,

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Matthias Hummel, Martin Zeitler, Oliver van Neerven, Marcus O. Weber, Christof Breckenfelder

Yarn-level simulation for warp-knitted clothing based on mesh model. - [Haisang Liu](#)

Development of a new thread supply for weft knitting machines to produce innovative knitwear. - [Prisca Holderied](#), Thomas Mutschler, Julia Klausmann, Lisa Streitenberger, Marie-Ange

Bueno, Marcus O. Weber

Mathematical modelling of dynamic yarn tension of a circular knitting machine with positive feeding system. - [A.K.M. Mobarok Hossain](#), MD Imranul Islam

The visual and physical properties of Croatian traditional knitwear. - [Vensa Marija Potočić Matković](#), Željka Pavlović

Knitting towards sustainability. - [Alenka Pavko-Čuden](#)

Effects of fiber cross-section shape on thermal comfort properties of polyester interlocking fabrics. - [Arzu Marmarali](#)

Loop cluster knitted material for Covid-19. - [Hitesh Kumar Sharma](#)

Novel CAD system for pattern design and automatic CAM selection of circular weft knitting machines. - [Yordan Kyosev](#)

Friday 2 September

Textiles as a foundational industry – InvestNI. - [Richard Pelan](#)

Donegal Yarns. - [Chris Weiniger](#)

Spinning hemp and yarn. - [Stephen Howard](#)

Development of innovative knitted fabrics from a novel combination of German hemp and pure recycled wool. - [Prisca Holderied](#), Lisa Streitenberger, Thomas Mutschler, Julia Klausmann, Marcus O. Weber

Development of a flexible flat knitting machine with a device for continuous feeding of core components. - [Thomas Mutschler](#), Prisca Holderied, Julia Klausmann, Lisa Streitenberger, Toni Beer, Michael Freude, Marcus O. Weber

Responsible performance knit within the outdoor clothing space: an investigation into the design and launch of a responsible range of jersey pieces for the outdoor sector. - [Faye Fraser](#)

Slovenian knitting tradition. - [Alenka Pavko-Čuden](#)

Bonner of Ireland - Heritage, technology and sustainability in rural Donegal. - [Fintan Mulholland](#)

Open educational resources for sustainable knitting technologies. - [Mirela Blaga](#)



Picture 1: Venue at Titanic Hotel



Picture 2: IFKT Congress 2022 in Belfast /Ireland at Ulster University