

To: News/Industry/Business Page Editors (2 pages)

5 September 2016

Smart Techs in Smart Fashion Runway & Exhibition – “Material Translation” The Hong Kong Research Institute of Textiles and Apparel (HKRITA) x PMQ

Textiles are used in every part of our lives. Innovations developed by The Hong Kong Research Institute of Textiles and Apparel (HKRITA) have always aimed for application. HKRITA has provided a series of green technologies in the Smart Fashion Runway & Exhibition – “Material Translation” to interpret fashion through technologies.

The runway and exhibition is organised by PMQ and funded by Create Hong Kong. The following novel technologies are provided to the ready-to-wear collection of 11 emerging Hong Kong fashion designers.

- 1) **Self-cleaning treatment** will automatically break down a range of unwanted elements such as dirt, odour, and colour stains in the treated textile under visible light. The technology has great potential in application not only to various kinds of clothing but also carpets, curtains, automobile’s interiors, plus toys and leather products.
- 2) **Anti-pilling treatment** is a newly-developed plasma technology to prevent pilling while maintaining the wool properties. The process has modified the knitwear’s surface structure with argon plasma, so the co-efficient of the inter-fibre friction is increased and fibre migration reduced. As such, a pill-less feature into wool-based fabrics is developed in a waterless process.
- 3) **Bio-degradable fibres** are non-plant based oxo-biodegradable materials. Degradation process of materials made by such fibres like surgical masks and protective gowns is faster. It will lighten the burden on the physical environment.
- 4) **Food waste fibres** are made through a series of bio process including fermentation and polymerization. Poly (lactic acid) fibre are produced and spun into textiles for garment making. Since the PLA fibre is biodegradable, it will degrade to water and carbon dioxide under sunlight.
- 5) **Plant structured woven** is inspired from the branching structure of a tree which allows efficient water transportation within the plant. The novel woven construction enhances moisture management of the fabric without additional chemical. Wearers’ overall comfort is enhanced.
- 6) **4-in-1 technology** is a multi-care finishing process which achieves water, oil and soil repellent capabilities along with wrinkle-free treatment in one simple step. This technology saves time, energy and money altogether.
- 7) **Binder-Free Surface-Cooling finishing** can enhance moisture management and air permeability. By removing sweat away from the skin, it keeps our body cool, dry and comfortable in the wet, hot summer.
- 8) **Inno-green** is a dedicated recycling process to convert fabric remnants into new yarn for weaving and knitting.



THE HONG KONG 香港紡織及成衣研發中心
RESEARCH INSTITUTE OF TEXTILES AND APPAREL

“Material Translation” Smart Fashion Exhibition

Date: 6 - 21 September 2016

Location: Unit S201 (2/F, Staunton Building), PMQ, 35 Aberdeen Street, Central

In addition to the Smart Fashion Runway & Exhibition – “Material Translation”, HKRITA will also feature these collections in the **CENTRESTAGE** organised by the Hong Kong Trade Development Council. Details are:

HKRITA @ CENTRESTAGE

Date: 7-10 September 2016

Location: Booth number Hall 3B-A12-A14, Hong Kong Convention and Exhibition Centre, 1 Expo Drive, Wanchai, Hong Kong

Remarks: **a mini-parade of the specially selected collections will be held near HKRITA’s booth at 11:30am on 9 Sep**

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