



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



HKTDC
Hong Kong Fashion Week
香港時裝節

HKRITA Webinar - Hong Kong's Innovative Solutions to Sustainability Challenges in Fashion Industry

HKRITA 網上研討會：科研技術協助時裝業界邁向可持續發展

Date 日期	:	26 May 2022 (Thur) 2022 年 5 月 26 日 (星期四)
Time 時間	:	3:30pm – 5:00pm (UTC/GMT+8) 下午 3 時半至 5 時正 (UTC/GMT+8)
Format 形式	:	Virtual Event 網上活動
Language 語言	:	English (with simultaneous interpretation: Cantonese & Putonghua) 以英語進行，附設廣東話及普通話即時傳譯
Organiser 主辦機構	:	The Hong Kong Research Institute of Textiles and Apparel (HKRITA) 香港紡織及成衣研發中心
Strategic Partner/ Event 策略伙伴/ 支持活動	:	HKTDC/ HKTDC Hong Kong Fashion Week 香港貿易發展局/ 香港貿發局香港時裝節
Moderator 主持人	:	Ms Katherine Chan, Director, Business Development, The Hong Kong Research Institute of Textiles and Apparel 香港紡織及成衣研發中心總監 (業務拓展) 陳念群女士
Remarks 備注	:	Free of charge, pre-registration required 免費參加，需預先登記

Abstract 活動撮要

The textile and fashion industries have made a sizeable impact on the environment along its diverse supply chains such as material production, garment manufacturing and waste disposal. This webinar will explore how innovations in sustainable production, renewable materials and waste management can support the industry to develop circular models and their application along the value chain, thus mitigating the environmental impact. The webinar will also introduce The Open Lab which is a collaborative space and a digital platform for research institutes, industry partners across the supply chain to come together to explore cross-industry collaborations.

紡織時裝業供應鏈複雜繁瑣，包括物料製造、成衣生產及廢料棄置，都對環境造成不少影響。這個網上研討會探討在可持續生產、再生物料及廢料管理的研發，如何幫助業界發展循環模式及應用，減輕對環境的影響。網上研討會亦介紹 The Open Lab 這個合作空間與數碼平台，如何匯聚研發中心及供應鏈內不同業界夥伴，攜手探索跨界的合作。



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Programme 議程

3:30pm

Welcome Remarks by Mr Edwin Keh, Chief Executive Officer, The Hong Kong Research Institute of Textiles and Apparel

香港紡織及成衣研發中心行政總裁 葛儀文先生 致歡迎辭

3:35pm

Leather Recycling

皮革回收

A bio-based approach to recycle post-consumer leather products into useful raw materials for the manufacture of new products.

利用生物基技術將廢舊的皮革產品回收成有用的原材料，用於製造新產品

Speakers 講者:

- Mr John Leung, Senior Research Manager, The Hong Kong Research Institute of Textiles and Apparel
香港紡織及成衣研發中心高級研究經理 梁健明先生
- Mr Fred Wong, Responsibility Programme Director, Asia Pacific, Burberry Asia Limited
Burberry Asia Limited 企業責任部總監 (亞太區) 黃家雄先生

3:52pm

Green Machine

A chemical hydrothermal treatment to selectively decompose cotton into cellulose powders, thereby enabling the separation of the polyester fibres from the blends.

利用化學水熱處理方法將棉分解為纖維素粉末，有效地把聚酯纖維從混紡織物中分離

Speakers 講者:

- Dr Gloria Yao, Director, Project Development, The Hong Kong Research Institute of Textiles and Apparel
香港紡織及成衣研發中心總監 (項目發展) 姚磊博士
- Mrs Gagan Bansal, Global Material Innovation & Strategy Manager, Puls Trading Far East Limited (H&M)
Puls Trading Far East Limited (H&M) 經理 (環球物料創新與策略) Gagan Bansal 女士
- Mr Egemen Bilge, Head of Business Innovation, ISKO
ISKO 主管 (業務創新) Egemen Bilge 先生



4:20pm

Absorboost

The Cellulose Superabsorbent Polymer (C-SAP) is transformed from the cellulose powder recycled from Green Machine, which is able to absorb over 30 times the volume of liquid and retain more than 20 times the volume of liquid relative to its own mass.

由 Green Machine 處理後的纖維素粉末轉化成纖維素高吸水性聚合物(C-SAP) · 使之可以吸收超過自身質量的 30 倍液體 · 並保留超過自身質量的 20 倍液體。

Speakers 講者:

- Dr Alex Chan, Senior Research Manager, The Hong Kong Research Institute of Textiles and Apparel
香港紡織及成衣研發中心高級研究經理 陳學聰博士
- Mr Anant Ahuja, Head, Organisational Development, Shahi Exports Private Limited
Shahi Exports Private Limited 主管 (組織發展) Anant Ahuja 先生
- Dr Shreekant S Patil, Emeritus Scientist, of Indian Council of Agricultural Sciences (ICAR) working at University of Agricultural Sciences Dharwad
達瓦德農業科學大學 - 印度農業研究理事會 (ICAR) 名譽科學家 Shreekant S Patil 博士

4:44

Planet First

A joint initiative between HKRITA and the H&M Foundation to develop technologies for rapid scaling and contributing to a planet positive fashion future.

香港紡織及成衣研發中心與 H&M 基金會的合作計劃 · 開發可以迅速被廣泛採用的技術 · 令時裝業在保護及保育地球上作出貢獻

Speaker 講者:

- Mrs Christiane Dolva, Strategy Lead Planet Positive, H&M Foundation
H&M 基金會, Strategy Lead Planet Positive, Christiane Dolva 女士



4:52pm

Open Lab

A physical space and a digital platform to develop solutions to reach carbon neutrality and achieve the planet positive goals across the supply chain.

一個開發各樣技術方案的實體空間與數碼平台，致力在供應鏈上達至碳中和，實現「Planet Positive」的目標。

Speaker 講者:

- Ms Ronnie Tung, Strategy and New Project Lead, The Hong Kong Research Institute of Textiles and Apparel
香港紡織及成衣研發中心高級經理 (策略和新項目) 董倩雯女士

4:58pm

Round Up 總結

5:00pm

The end 活動結束

Speaker Profile 講者簡介



Dr Alex Chan, Senior Research Manager, The Hong Kong Research Institute of Textiles and Apparel

香港紡織及成衣研發中心高級研究經理 陳學聰博士

Dr Alex Chan has worked on consulting projects on crystallization, solids processing and process development for petrochemicals, specialty chemicals and industrial enzymes. He is undertaking R&D development at HKRITA; developing and managing projects for blended textile upcycling, textile material decoloring, cellulosic material applications, waterless dyeing, denim wastewater treatment, etc. He holds multiple award-winning IPs.

陳學聰博士曾參與有關石化、特種化學品和工業酶的結晶、固體加工和工藝開發的諮詢項目。他正在 HKRITA 工作，研發和管理混紡織物升級再造、紡織材料脫色、纖維素物料應用、無水染色、牛仔布廢水處理等項目。他擁有多個發明專利。



Mr Anant Ahuja, Head, Organisational Development, Shahi Exports Private Limited

Shahi Exports Private Limited 主管 (組織發展) Anant Ahuja 先生

Anant Ahuja is the Head of Organisational Development (OD) at Shahi Exports. Started by his grandmother in 1975, Shahi has always placed the employment and advancement of women at the core of its business. Since 2012, Anant has been spearheading positive change across the business through innovation and strategy to align the company's growth with the development of people, communities, and the environment. His belief that the private sector is a critical lever for development and sustainability led him to start Good Business Lab (GBL), a labor innovation start-up that conducts research to find common

ground between worker wellbeing and business interests. Through his change management work at Shahi and the evidence-based research at GBL, Anant wants to change the way businesses operate. He graduated with a B.A. in Political Science from the University of Pennsylvania and was a part of the NITI Aayog's "Champions of Change" initiative.

Anant Ahuja 先生是 Shahi Exports 的主管 (組織發展)。Shahi 於 1975 年由 Ahuja 先生的祖母創立，以女性的就業和進步置於其業務的核心。自 2012 年以來，他一直通過創新和戰略引領整個業務的積極變革，以使公司的增長與人、社區和環境的發展保持一致。他堅信私營企業是發展和可持續發展的關鍵，這促使他創辦了 Good Business Lab (GBL)，這是一家勞動力創新的初創公司，開展研究以尋找工人福利和商業利益之間共同點。通過他在 Shahi 的變革管理工作和在 GBL 的循證研究，Ahuja 先生希望改變企業的運營方式。他擁有賓夕法尼亞大學的政治學系學位，並且是 NITI Aayog 的變革擁護者。



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**Mrs Christiane Dolva, Strategy Lead Planet Positive, H&M Foundation
H&M 基金會, Strategy Lead Planet Positive, Christiane Dolva 女士**

Christiane Dolva Törnberg joined H&M Foundation as Strategy lead in 2022. She is responsible for setting out the strategic direction for the Planet Positive pillar of H&M Foundation. Her aim is to speed up meaningful research and innovation as well as connecting different actors in the industry to adopt and scale new ways of working that can help solve the great challenges and result in industry transformation. Christiane has extensive experience in the field of sustainability and has for the past 7 years acted as Global Sustainability Director for the Swedish outdoor brand Fjällräven.

Christiane Dolva Törnberg 女士於 2022 年加入 H&M 基金會擔任 Strategy Lead Planet Positive。她負責為 H&M 基金會的 Planet Positive 制定戰略方向，目標是速成有意義的研發和創新項目，並聯繫業界的不同參與者，用新思維模式去幫助業界面對巨大的挑戰和轉型。Christiane 在可持續發展領域擁有豐富的經驗，並在過去 7 年中擔任瑞典戶外品牌 Fjällräven 的全球可持續發展總監。



**Mr Edwin Keh, Chief Executive Officer, The Hong Kong Research Institute of
Textiles and Apparel**

香港紡織及成衣研發中心行政總裁 葛儀文先生

Mr Edwin Keh is the CEO of The Hong Kong Research Institute of Textiles and Apparel. He also teaches supply chain operations in the Operations, Information and Decisions Department of the Wharton School, University of Pennsylvania.

Edwin had a career as senior executive with several international consumer goods and retail companies. He was granted a number of awards, including the Medal of Honor in 2020 by the HKSAR Government for his research work during the pandemic, one of the best of Top 50 Innovative Retail Leaders by Inside Retail Hong Kong in 2019. Edwin holds multiple IPs which won global invention awards.

葛儀文先生是香港紡織及成衣研發中心行政總裁，亦於賓夕法尼亞大學沃頓商學院 Operations, Information and Decisions Department 任教供應鏈管理。

葛先生曾在多家國際消費品和零售公司擔任高級管理人員，並獲頒多個獎項，包括

2020 年獲香港特別行政區政府頒授榮譽勳章，以表揚他在應對冠狀病毒病疫情期間的研發工作，獲 Inside Retail Hong Kong 選為 2019 年香港 50 位具創意的零售界領袖之首。葛先生擁有多個曾獲國際獎項的專利。



Mr Egemen Bilge, Head of Business Innovation, ISKO

ISKO 主管 (業務創新) Egemen Bilge 先生

Egemen Bilge is Head of Business Innovation for ISKO, the leading ingredient brand behind the most famous denim collections around the world.

He received his Bachelor's degree in Mechanical Engineering from Middle East Technical University in 2005. He has a master's degree in Mechanical Engineering from the same university as well as an MBA from Sabanci University.

Mr. Bilge had experiences in R&D departments of defense, aerospace, automotive and technical textile industries, and later taking on managing positions in R&D and market development functions. He joined ISKO in early 2020 and took responsibilities on boosting new technology, idea, process and product commercialization and implementation processes. He has active role in technology-based collaborations, partnerships on circularity and new technology areas.

Egemen Bilge 先生是 ISKO 的主管 (業務創新)。ISKO 是世界著名的牛仔布品牌。

他於 2005 年擁有中東技術大學的機械工程學士學位及碩士學位，並在 Sabanci 大學亦擁有工商管理碩士學位。

Bilge 先生分別曾在國防、航空、汽車和紡織技術行業的研發部和市場發展擔任管理層職位。他於 2020 年初加入了 ISKO，並承擔了提高新技術、思維、過程、產品商業化和實施過程的業務。他在技術合作、循環和新技術領域的合作夥伴關係中發揮了積極的作用。



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Mr Fred Wong, Responsibility Programme Director, Asia Pacific, Burberry Asia Limited

Burberry Asia Limited 企業責任部總監 (亞太區) 黃家雄先生

Fred has been working in the CSR industry for more than 20 years. Before joining Burberry, he was the Head of Code of Practice in NEXT to manage the CSR issues of supply chain in Asia. He also worked in Printed Circuit Board and toy industries to manage the Environmental, Health and Safety issues. Fred is a Chartered Member of IOSH, Certified Energy Manager and registered safety officer in HK. He holds an MBA degree from CUHK and an MPhil from HKUST.

黃家雄先生從事企業社會責任行業已有 20 多年。在加入 Burberry 之前，他曾在 NEXT 擔任業務守則主管，負責管理亞洲供應鏈的企業社會責任業務，也曾在印刷電路板和玩具行業工作，擔任管理環境、健康和安全的項目。黃先生是 IOSH 的特許會員、認證能源經理和香港註冊安全主任。他擁有香港中文大學的工商管理碩士學位和香港科技大學哲學碩士學位。



Mrs Gagan Bansal, Global Material Innovation & Strategy Manager, Puls Trading Far East Limited (H&M)

Puls Trading Far East Limited (H&M) 經理 (環球物料創新與策略) Gagan Bansal 女士

Gagan Bansal is Global Material Innovation and Strategy Manager at H&M Group, and has been with the organisation for over a decade. She has a vast experience of strategic sourcing in leadership roles in various countries (Bangladesh, India, Sri Lanka, Ethiopia, and Hong Kong). Having a Bachelors Degree in Textiles, she has worked with textile suppliers across the world for last twenty years and in her current role, she has set herself a new ambition to look for innovations in Fibers, Yarns, Processes and Technologies which are scale able and will help the planet become greener and a better place for our next generations.

Gagan Bansal 現為環球物料創新與策略經理，並在集團工作超過十年，擁有豐富策略採購的經驗，曾在多個國家（孟加拉、印度、斯里蘭卡、埃塞俄比亞和香港）擔任領導職務。她擁有紡織學士學位，在過去的二十年裡，她一直與世界各地的紡織品供應商合作。她為自己定下新的抱負，希望透過在纖維、紗線、工序和技術方面的創新領域裡，擴展綠色地球，為我們的下一代創造更美好的地方。



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Dr Gloria Yao, Director, Project Development, The Hong Kong Research Institute of Textiles and Apparel

香港紡織及成衣研發中心總監（項目發展）姚磊博士

Dr Yao has considerable research experience of textile and clothing. She played a key role in a number of research projects on the textiles and clothing area. Her research specializes in textile/clothing-human body interactions with focus areas on textiles material and skin, textiles functions and its health impact, sportswear design and human physiology evaluation.

Dr Yao has published over a dozen papers in refereed journal and 30 papers in refereed conference proceedings. She has written several books/chapters on Technology Roadmap of Textile and Clothing Industry and Denim Industry of Mainland China and Hong Kong. She is a reviewer to Textile Research Journal, Journal of American Academy of Dermatology, International Journal of Dermatology and editor to Journal of Fiber Bioengineering and Informatics. She held post-doctoral fellowship of the New Zealand Wool Research Institute in the University of Otago. She is the director of Textile Bioengineering Informatics Society.

姚博士具深厚的紡織成衣研發經驗，於多項研究中擔任主要科研人員。其研究集中於紡織/衣服與人體的交互作用，重點包括服裝材料和皮膚、紡織功能及其於健康的影響、運動服設計與生理檢測。

姚博士撰寫過十多份期刊論文、越 30 份會議論文，出版過多本/份以紡織服裝行業技術路線圖及香港及中國大陸牛仔布工業為重點的專書/章節。她是 Textile Research Journal, Journal of American Academy of Dermatology, International Journal of Dermatology 多份科學期刊的審稿員，《纖維生物工程與資訊》期刊編輯。姚博士曾任 University of Otago 的 New Zealand Wool Research Institute 博士後研究員，現為紡織生物工程與資訊學會董事。



Mr John Leung, Senior Research Manager, The Hong Kong Research Institute of Textiles and Apparel

香港紡織及成衣研發中心高級研究經理 梁健明先生

Mr. John Leung's research specializes in textile and apparel closed-loop recycling process design, engineering and implementation. He played a key role in a number of research projects including the Garment-to-Garment Recycling System, Triboelectric Fiber Separation System as well as Microplastic Separation System.

Mr. Leung has worked in the field of process control and automation before joining The Hong Kong Research Institute of Textiles and Apparel, of which he has attained considerable experience in manufacturing and petrochemical industries. He was granted the Chief Executive's Commendation for Community Service in 2020 by the HKSAR Government for his research work during the earlier part of the pandemic.

梁健明先生的研究範圍包括紡織品循環再造的流程與系統設計與實現。他在 G2G 舊衣新裳系統、無水混紡纖維分離系統、與微膠粒分離等系統負責主要研究工作。

梁先生在加入 HKRITA 之前在製造工業與石化工業研發擔任流程控制與自動化系統設計工作，並獲取深厚的研發經驗。他在 2020 年獲得行政長官社區服務獎狀，以表揚他在應對冠狀病毒疫情期間的研發工作。



Ms Ronnie Tung, Strategy and New Project Lead, The Hong Kong Research Institute of Textiles and Apparel

香港紡織及成衣研發中心高級經理 (策略和新項目) 董倩雯女士

Ronnie joined HKRITA in 2019 focusing on research project design and launching partnerships with commercial and academic sectors. Prior to this role, Ronnie was a design and creative professional who has worked in multiple functions across the fashion value chain – from design, manufacturing to retail and marketing, where she gained first-hand insight into the industry landscape. Ronnie also serves as advisor to new businesses in fashion and co-edited fashion and textiles publication with Fashionary.

Ronnie 於 2019 年加入 HKRITA，專注於研究項目設計並及與商界和學術界建立合作夥伴關係。在此之前，Ronnie 是一名設計和創意專業人士，曾在時裝價值鏈擔任不同職能工作——從設計、製造到零售和營銷，擁有行業的全面經驗。Ronnie 同時擔任時裝行業新業務的顧問，並與 Fashionary 共同編輯有關時裝及紡織出版物。



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Dr Shreekant S Patil, Emeritus Scientist, of Indian Council of Agricultural Sciences (ICAR) working at University of Agricultural Sciences Dharwad

達瓦德農業科學大學 - 印度農業研究理事會 (ICAR) 名譽科學家 Shreekant S Patil 博士

Ph. D. in Genetics from The Indian Agricultural Research Institute (IARI) New Delhi and Visiting Scientist of International Maize and Wheat Improvement Center (CIMMYT), Mexico, conferred with its Diploma. Worked as Cotton Breeder and retired as Director of Research, currently working as Emeritus Scientist of Indian Council of Agricultural Sciences (ICAR) at The University of Agricultural Sciences, Dharwad.

Continuously engaged (40th year) in teaching Population Genetics and Quantitative Genetics to Post Graduate Students. Guided over 30 MSc and PhD students Released over 15 cotton varieties and hybrids/registered colour cotton/other germplasm. Handled over 20 cotton research projects and currently handling cotton breeding projects for organic situation. Published over 150 research articles in journals and presented papers in Conferences, Conferred with many awards for Post Graduate teaching/ Professional excellence/ Presentations in Conferences, etc. Served/serving as Member of Research Advisory Committees (RAC) of national institutes, editorial boards.

Shreekant S Patil 博士擁有在新德里印度農業研究所 (IARI) 的遺傳學博士，並在墨西哥國際玉米和小麥改良中心 (CIMMYT) 擔任訪問科學家時授予文憑。他亦曾擔任棉花育種者，退休後擔任研究總監，目前在達爾瓦德農業科學大學擔任印度農業科學理事會 (ICAR) 的名譽科學家。

Patil 博士在群體遺傳學和數量遺傳學教授了 40 年，曾指導 30 多名碩士生和博士生發佈了 15 個以上有關棉花品種和雜交種/註冊彩棉/其他種質的研究。處理過 20 多個棉花研究項目，目前正在處理有機的棉花育種項目。在期刊上發表了超過 150 篇研究文章，並在會議上發表不同論文，多次獲得研究生教學/教授獎。現擔任國家研究所的研究諮詢委員會 (RAC) 及編輯委員會成員。



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Moderator Profile 主持人簡介



Ms Katherine Chan, Director, Business Development, The Hong Kong Research Institute of Textiles and Apparel

香港紡織及成衣研發中心總監 (業務拓展) 陳念群女士

Ms Chan has extensive experiences in the full supply chain of textile and apparel industry globally. Her knowledge covers textile chemicals, yarn spinning and textile manufacturing and was in roles overseeing design to garment productions to retail in the USA, Singapore and Hong Kong.

Ms Chan has worked with textile factories in Asia and the Americas in product development as well as manufacturing. She was involved in R&D, marketing, operations and quality assurance.

Before joining HKRITA, Ms Chan was with BASF as global product manager as well as global marketing, strategic projects and regional product managements for different chemical segments. During the years, she has worked with global teams and management for chemical manufacturing around the world including Europe, the USA, Asia and Middle East.

Ms Chan received a Bachelor of Arts degree in Economics from University of Wisconsin, Madison, an AAS degree in Fashion Buying and Merchandising from Fashion Institute of Technology, both in the USA and MBA from The Hong Kong University of Science and Technology.

陳念群女士在全球紡織服裝行業整個供應鏈方面有著豐富的經驗。她的知識涵蓋紡織化學品、紗線紡紗和紡織製造，並於美國、新加坡和香港負責監督從設計、生產至零售市場的工作。

陳女士曾於亞洲和美洲的紡織和成衣生產商工作，從事產品開發和製造流程管理，並參與研發、行銷、營運和質量保證的管理工作。

陳女士加入 HKRITA 之前，曾於巴斯夫香港和新加坡擔任全球產品經理，在各種不同的化工領域負責全球行銷、戰略專案和區域產品管理工作。多年來，她與全球的團隊和管理層合作，為世界各地包括歐洲、美國、亞洲和中東的客戶提供解決方案。

陳女士擁有美國威斯康辛大學麥迪遜分校經濟學學士學位、紐約州立時尚科技學院時尚採購及商品副應用科學學位及香港科技大學工商管理碩士學位。