

**The 86th Textile Institute World
Conference
18 - 21 November 2008, Hong Kong**



Day 3: 20 November (1400 – 1745)

(Duration: 25 minutes including Q&A session. For keynote speech, total duration is 30 minutes)

TRACK 1C: FIBRE & POLYMER

Improving the Whiteness and Photostability of Merino Wool

KR Millington¹, JM Dyer², MR Fleet³, TJ Mahar⁴, J Smith⁵, P Swan⁶

¹CSIRO Materials Science and Engineering; ²AgResearch Lincoln Research Centre; ³South Australian Research and Development Institute, Turretfield Research Centre; ⁴Australian Wool Testing Authority Ltd; ⁵CSIRO Livestock Industry, Armidale; ⁶CRC for Sheep Industry Innovation, University of New England, UK

Stimuli-Sensitive Swelling Behaviour of Hydrogels Based on *N*-Isopropylacrylamide with Sodium Acrylate

Huang He¹, Mao Zhi-Ping², Yu Wei-Dong^{1,3}

¹Textile Material and Technology Lab, Donghua University; ²Key Lab of Science and Technology of Eco-textile, Ministry of Education, Donghua University; ³Textiles and Materials College, Wuhan University of Science and Technology, PRC

Experimental Study and Modeling of the Electrospinning Process

Asis Patanaik¹, Valencia Jacobs¹, Rajesh D. Anandjiwala^{1, 2}

¹CSIR Materials Science and Manufacturing, Fibres and Textiles Competence Area; ²Department of Textile Science, Faculty of Science, Nelson Mandela Metropolitan University, South Africa

Dye-Doped Mesostructured Silica Power (Rh B – SiO₂) Synthesis for Micro-Optoelectronic Applications

Shang Song-min, Yang Xiao-ming, Tao Xiao-ming

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

Evaluation of Mechanic Thermal and Optical Properties of Aramid Fabric

Cai Guang-ming¹, Yu Wei-dong^{1,2}

¹Textile Materials and Technology Laboratory, Donghua University; ²College of Garment & Art Design, Jiaxing University, PRC

Preliminary Study on Relating Young's Modulus to Wool Handle

Linda Hillbrick^{1,2}, Mickey Huson¹

¹CSIRO, Materials Science and Engineering; ²Centre for Material and Fibre Innovation, Deakin University, Australia

Feasibility Study of Keratin Reinforced Wool Keratin Films and their Preparation

Liu Yang¹, Yu Wei-dong^{1,2}

¹Textile Materials and Technology Laboratory, Donghua University; ²College of Garment & Art Design, Jiaxing University, PRC

Studying on Influence of Environmental Conditions on Physical Properties of Reactive Dyed Cotton Goods

Ahmad Reza Sattarian, Iran

TRACK 2C: PROCESSING TECHNOLOGY

Engineering of Tearing Strength for Pile Fabrics

Nabiha Kotb¹, A. Salman.², A. Abdel-Samad², Adel EL Geiheini³

¹Faculty of Education, Technical Education Department, Helwan University; ²Faculty of Applied Arts, Spinning, Weaving & Knitting Department, Helwan University; ³Faculty of Engineering, Spinning & Weaving Department, Alexandria University, Egypt

Intelligent Settings Using Artificial Intelligence for Optimization of the Spinning Process

Assad Farooq Chokri Cherif

Institute of Textile and Clothing Technology, Technische Universität Dresden, Germany

An Approach for Ring Spun Yarn Torque

Hua Tao, Tao Xiao-ming, Cheng Kwok-Po Stephen, Xu Bin-Gang

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

Dynamic Analysis of Spinning Triangle in a Modified Low Torque Ring Spinning System

Jie Feng, Bingang Xu, Tao Xiao-ming, Tao Hua, Charlotte Murrells

Institute of Textiles & Clothing, The Hong Kong Polytechnic University, Hong Kong

Electrostatic Web Cleaner: Effect on Neps of Card Sliver of a Carding Machine

Cao Ji-Peng^{1,2}, Wang Rui¹, Sun Peng-Zi²

¹College of Textiles, Tianjin Polytechnic University; ²Department of Textile Engineering, Eastern Liaoning University, PRC

Quality and Economical Comparison between Compact And Singed Cotton Yarns

Mashaly,R¹., Hussein,S.¹, Hassan, Z.²

¹Alexandria University, Faculty of Engineering, ²Spin Alex Co., Egypt

Mechanical Analysis and Foundation Design of Soft Pressure Sensor

Zhu Bo, Tao Xiao-ming

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An Influence Analysis of Y-Shaped Polyester Blended Knitted Fabric on its Thermal Comfort

Shi Li-Min¹, Wang Yue-Ping^{1,2}

¹The School of Fashion Art and Engineering, Beijing Institute of Fashion Technology; ²College of Materials Science and Engineering, Sichuan University, PRC

TRACK 3C: FASHION & TEXTILE DESIGN

Conscience Clothing: Polarisation of the Fashion Textile Market

Joan Farrer RCA¹, Kim Fraser²,

¹Design Lab AUT University; ²Department of Fashion AUT University, New Zealand

Digital Printing Process Study for Personalised Clothing

Bougourd, J., Delamore, P.

University of the Arts London, London College of Fashion, UK

Innovative Design Architecture Fabrics (Part 2)* (The Weft is Kevlar Yarn)

M.M Amer

Faculty of Applied Arts, Helwan University, Egypt

Functional Design and Characterization of Fire Protective and Heat Insulating Composite Fabric

Hao Li-Cai¹, Yu Wei-Dong^{1,2}

¹Textile Materials & Technology Lab, Donghua University; ² College of Garment and Art Design, Jiaying University, PRC

Aesthetic Analysis of Fashion Communication System

Sunny Yan, Roger Ng

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

Customized Virtual Fitting of Compliant Shoe Sole onto a Lasted Upper

P.M.Taylor¹, R.Bicker², Z.X.Hu², C.Marshall²,

¹R&T Mechatronics Ltd; ²School of Mechanical and Systems Engineering, University of Newcastle, UK

A Study of Interactivity in Art and Design

XIA W.Z., NG. M.C.F.

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

TRACK 4C: FASHION & TEXTILE DESIGN

Imagineering: Creativity in the Future Landscape

Anne Toomey

Textiles Department, School of Fashion and Textiles, Royal College of Art, UK

Knitwear Design Based on Aran Motive and Concept of Spatial Continuity – Focusing on Theories of Bergson and Deleuze-

Yoon-Mee Lee¹, Jung-Im Jang², Mee Jeka², Youn-Hee Lee²

¹Dept. of Knit Fashion Design, Hanyang Women's College; ² Dept. of Clothing & Textiles, Hanyang University, Republic of Korea

Innovative Textile Applications: Digital and Traditional: Industry and Academia

Patricia Belford (Turnbull Thompson and Grili Concrete), Ruth Morrow (Girli Concrete)

School of Art and Design, University of Ulster, UK

Clothing Evaluate Criteria: A Perspective of Fashion Design and Consumer's Aspirations

Osmud Rahman¹, Jiang Yan², Liu Wing-sun³

¹School of Fashion, Ryerson University, Canada; ² School of Fashion, Zhejiang Sci-Tech University, PRC; ³ Institute of Textiles & Clothing, The Hong Kong Polytechnic University, Hong Kong

Exploring Textiles Futures: Textiles and Fashion Education for Generation X, Y and Z, Negotiating the Digital Transition

Rose Sinclair

Department of Design, Goldsmiths, University of London, UK

Semantic Analysis of Fashion Statements

Ng Roger¹, Lee Briar², Yan Sunny¹

¹*Institute of Textiles and Clothing, The Hong Kong Polytechnic University;* ² *School of Design, The Hong Kong Polytechnic University, Hong Kong*

Structure Designing and Properties Investigation of Flexible Multilayer Thermal Insulation Materials

Chen Jin-Jing¹, Yu Wei-Dong^{1,2}

¹*Textile Materials and Technology Laboratory, Donghua University;* ²*College of Garment & Art Design, Jiaxing University, Jiaxing, PRC*

Creation of Design Variations using CAD

Luximon Ameersing¹, Luximon Yari²

¹*Institute of Textiles and Clothing, The Hong Kong Polytechnic University,* ² *Health Technology and Informatics, The Hong Kong Polytechnic University, Hong Kong*

TRACK 5C: CLOTHING SCIENCE & TECHNOLOGY

Investigating the Relationship Between Anthropometrical Data and Fully Shaped Knitted Garments in UK Manufacturing

Power, E. J., Otieno, R

Manchester Metropolitan University, UK

Research on the Key Technology of Intellectualized Clothing Capp

Li Ying-Lin¹, Yang Lian-he², Liu Jian-ping³, Li Ying-Zhong⁴

¹*School of Textile, Tianjin Polytechnic University;* ² *School of Computer and Automation, Tianjin Polytechnic University;* ³ *School of Art and Clothing, Tianjin Polytechnic University;* ⁴ *Adult Education College, Wei Fang University of Science and Technology, PRC*

A Subjective Wear Trial on Cyclist's Wear

Wang Li-Chu, Shih Yang-Ping, Chou Hsien-Chen, Tseng Shang-De, Jou Gwo-Tsuen

Taiwan Textile Research Institute, Chinese Taipei

Safety Clothing for People Requiring Photo Protection

M. Zimniewska¹, M. Pawlaczyk², J. Batog¹, R. Kozłowski¹

¹*Institute of Natural Fibers, Poland;* ²*Poznan University of Medical Sciences, Poland*

Transport properties of Semi-Permeable – Barrier Textile for Modern Sports Apparel

Antonín Havelka, Zdeněk Kůr

Department of Clothing, Faculty of Textile Sciences, Technical University of Liberec, Czech Republic

Investigation into the Reliability of Rain Simulation Analysis of Soft Shell Garments

Katy Stevens

Performance Clothing Research Group, University of Leeds, UK

Neck Characteristics Factors and Sizing System Development for Chinese Young Women

Jiang Li-Jun¹, Zhang Wen-Bin¹, Wang Li-Hong²

¹*Department of Fashion Design, Donghua University;* ²*Department of Art Design, Weihai Vocational College, PRC*

Automated Block Pattern Generation from 3D Unstructured Point Cloud

Haiqiao HUANG, P.Y. Mok, Y.L. Kwok, J.S. AU

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

TRACK 6C: MARKETING & RETAILING

Fast Fashion: A Responsive Retail Environment?

Liz Barnes¹, Gaynor Lea-Greenwood²

¹Department of Textiles, Manchester University; ²Department of Clothing Design & Technology, Manchester Metropolitan University, UK

Assessing the Validity of a Niche Strategy Model for Textiles and Apparel

Reece Allen¹, Erin Parrish², William Oxenham¹, Nancy L. Cassill¹, Michelle R. Jones¹

¹College of Textiles, North Carolina State University; ² Department of Interior Design & Merchandising, East Carolina University, USA

Competitive Analysis of the Global Textiles and Clothing Exporters

Wong Man-Chong, Au Kin-Fan

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

The Impact of Store Displays on Consumers' Affective Response: The Intimate Apparel Experience

Derry Law, Joanne Yip

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

Experiential Marketing in Florentine Fashion and Luxury Stores

Cristiano Ciappel¹, Massimiliano Pellegrin², Micaela Surchi¹

¹University of Florence; ²University of Rome, Italy

Evaluation of Supply Chains: Performance Measurement Systems and Applications to Textile and Apparel

Reece Allen

College of Textiles, North Carolina State University, USA

Exploring the Relationships between Store Colour, Fashion Consciousness and Branding

Priscilla Y. L. Chan, John Xin

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

TRACK 7C: FIBRE & POLYMER

Keynote Speech: Study on Fibre Copolymerized by Butyl Methacrylate and Hydroethyl Methacrylate

Xiao Chang-Fa, Xu Nai-Ku

Tianjin Key Laboratory of Fiber Modification and Functional Fiber, Tianjin Polytechnic University, PRC

Static Generation and Dissipation of Textile Fabrics and Films

Abdel-Fattah M. Seyam¹, Lu Liu¹, Yasser E. Hassar², Sherif A. Abid³, William Oxenham¹

¹College of Textiles, North Carolina State University; ²Apparel Department, Faculty of Applied Arts, Helwan University; ³Clothing and Textile Department, Faculty of Home Economics, Helwan University, USA

Study on the Mechanical and Thermal Properties of Pseudo-Thermoplastic Corn Starch/Pseudo-Thermoplastic Polyvinyl Alcohol Biodegradable Films

Chin-An Lin, Chi-Che Tung, Hsiao-Chi Tsai

Graduate Institute of Textile Engineering, Feng Chia University, Chinese Taipei

Structures of Natural Bamboo Fiber for Textiles

Wang Yueping^{1,2}, Wang Ge³, Cheng Haitao³, Liu Zheng⁴, Xiao QunFeng⁴, Zhou Xiangqi⁴, Han Xiaojun², Gao Xushan², Tian Genlin³

¹Textile College, Sichuan University; ²Beijing Key Laboratory of Clothing Materials R&D and Assessment, Beijing Institute of Clothing Technology; ³Bamboo and Rattan Science and Technology Key Laboratory of the State Forestry Administration, International Centre for Bamboo and Rattan; ⁴Hunan Zhuzhou Xuesong Ramie Co. Ltd., PRC

Electrostatic Behaviour of Textile Fabrics

V. K. Kothari, Vipul M. Bhagwat, Indian Institute of Technology, India

Enzymatic Treatment for Slenderized Wool Fibres

Dong Li, Zhang Jian-Fei, Xu Lei, Liu Hua-Wu

School of Textiles, Tianjin Polytechnic University, PRC

Oxidation of Formaldehyd by BY MnO₂ Nanoparticles Loaded on AN-VDC Copolymer Fibres Containing PAC

Xiujuan Chu, Hua Zhang, Shi-yu Li

Tianjin Municipal Key Lab of Fibre Modification and Functional Fibres Institute of Functional Fibres, Tianjin Polytechnic University, PRC

The Effects of Decolorizing Operation on Human Hair

Soheila Ghazizadeh – Mahani, A. Alamdar – Yazdi, M. Sharzehee, Textile Department, Yazd University, Iran

TRACK 8C: RESOURCE MANAGEMENT; TRADING & COMPLIANCE

Keynote Speech: Lean Planning and Scheduling in Textile Manufacturing

George Hodge, April Wagoner, Kristin Thoney, Jeff Joines

College of Textiles, North Carolina State University, USA

R&D of Bobbin Tracking and Tracing System Based on RFID Technology

Liu Jihong, Lu Yuzheng

Creative Digital Media Research Center, Jiangnan University, PRC

Grey Substitution in Acrylic Three Chromatic Dyeing In Order To Optimize Colorants Consumption

F. Zeighami, M. Amani Tehran

Textile Engineering Department, Amirkabir University of Technology, Iran

Gravity Trade Model: An Empirical of Empirical Analysis of Apparel Exports for Hong Kong

Eve, Chan Man Hin, Au Kin Fan

Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong

Transit Challenges for OBM: A Case Study of Taiwan SME

Sheau Yun Chyr, Gail Taylor, Chi Leung Patrick Hui

Institute of Textiles & Clothing, The Hong Kong Polytechnic University, Hong Kong

Layering of Apparel Fabrics to Better Approximate Use

R M Laing¹, S E Gore¹, C A Wilson¹, D J Carr¹, B E Niven²

¹*Clothing and Textile Sciences, University of Otago;* ²*Centre for the Application of Statistics and Mathematics, University of Otago, New Zealand*