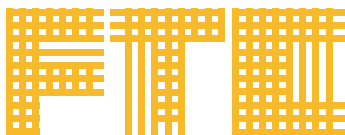


Programme



FUNCTIONAL TEXTILES & CLOTHING CONFERENCE

9th-11th Feb, 2018, NEW DELHI, INDIA

Venue: Lecture Hall Complex (LHC), IIT Delhi.

1

DAY

9th February 2018

17:00 - 19:00 hrs Registration, Networking
& High Tea

Location : Central Atrium

10th February 2018

08:30 - 09:30 hrs Registration
09:30 - 10:30 hrs **Inaugural Session**
09:30 - 09:35 hrs Welcome Address by
Prof Deepti Gupta, IIT Delhi.
09:35 - 09:40 hrs Introduction to the Conference
by Prof Sanjay Gupta, WUD Sonipat.
09:40 - 09:50 hrs Introduction to Textile Department by
Prof. Behera, IIT Delhi.
09:50 - 10:00 hrs Presidential Address by
Prof V Ramgopal Rao, Director, IIT Delhi.
10:00 - 10:05 hrs Vote Of Thanks by
Prof Abhijit Majumdar, IIT Delhi.
10:05 - 10:30 hrs Key Note Address by
Prof Vladan Koncar
10:30 - 11:00 hrs High Tea

Location : LHC111

Plenary Session I : 11:00 - 12:15 hrs

(Location : LHC111)
Plenary Lecture 1

Disruptive applications of textiles for aerospace applications.

Jean-François Geneste - Skoltech, Russia.

Plenary Lecture 2

Active Wear Textiles

Pankaj Verma - Sutlej Textiles & Industries Limited, Mumbai.

2

DAY

Plenary Lecture 3

Developments in bullet resistant materials.

Ashish Kansal - SM Group India.

Technical Session I : 12:15 - 13:45 hrs

Parallel session 1A:

Product design & Development

Location : LHC-108

Session Chair

Prof. R Chattopadhyay

SPEAKERS

Jane Ledbury

Safer custody clothing: designing clothing for female prisoners at risk of self-harm.

Arushi Arora

Pain reducing smart belt for Dysmenorrhea.

Mizutani Chiyomi

Sportswear made of weak-acidic polyester for allergic dermatitis.

Shweta Saxena

Development of cement workers work-wear to prevent occupational hazard.

Srikrishnan M. R.

Design and development of antipollution face mask.

Nilima R. Topno

Development of arc rated rainwear jacket.

Parallel session 1B:

Textile testing & characterization

Location : LHC-111

Session Chair

Dr. Arindam Basu

SPEAKERS

Manjeet Singh Parmar

Development of smoothness tester for testing smoothness behavior of fabric

Mrinal K Dutta

Analysis of compression behavior of warp knitted fabrics with spherical surface.

Shravan K Gupta

Thickness loss of handmade carpets after dynamic loading

Gurumurthy B Ramaiah

Characterization of surface design features in merino wool, pashmina & angora fibers using temperature regulating PCM.

Sivaram Sundar

Investigation on rotor yarn properties of fibre obtained from knitted fabric waste.

Yamini Jhanji

Thermo-physiological properties of polyester-cotton plated fabrics.

Parallel session 1C:

Sustainable Supply chain I

Location : LHC-114

Session Chair

Dr. Ashish Agarwal

SPEAKERS

Sebastian Thomassey

A new collaborative model for demand-driven supply chains: case study on textile industry.

Rudrajeet Pal

Apparel remanufacturing value chains – a feasibility analysis.

Chandadevi Giri

Customer analytics in fashion retail industry.

Patanjal Kumar

Integrating green & social innovation in apparel supply chain using coordination with contracts.

Ankur Saxena

Awareness of green manufacturing in Apparel Industry.

Nilanjana Bairagi

Innovative Fashion & Design Development: Design Research Tools.

LUNCH : 13:45 - 14:45 hrs

Plenary Session II

(Location : LHC11)

Plenary Lecture 4

14:30 - 15:00 hrs

Designing & fitting patterns in 3D

Prof. Sybille Krzywinski

TU Dresden, Germany.

Plenary Lecture 5

15:00 - 15:30 hrs

New developments in flame retardant coatings for textiles

Prof. Baljinder Kandola

University of Bolton, UK.

Technical Session II : 16:00 - 17:30 hrs

Parallel session 2A:

Electronic textiles

Location : LHC-108

Session Chair

Prof. Vlado Koncar

SPEAKERS

Rozi Ahmed

Hybrid cover yarn's element orientation & its impacts on mechanical/ tensile behaviour of conductive yarns & fabrics.

Md. Momtaz Islam

Facile Metallization Technique of Textiles for E-Textile Application.

Anaëlle Talbourdet

Strategies for the production of energy harvesting textile structures based on PVDF piezoelectric fibres.

Muthukumar N

Development and characterization of metal woven thermo electric fabrics.

Parallel session 2B:

Textile Engineering & comfort

Location : LHC-111

Session Chair

Prof. G Thilagavathy

SPEAKERS

Eyal Sheffer

Novel uses of Textile Structures in Water Treatment.

Madan Lal Regar

Evaluation of Eli-Twist Sewing Thread.

Jimmy KC LAM

Textile Engineering Approach on Ultraviolet Protection on Knitted Fabric.

Prithwiraj Mal

Engineering of single jersey fabric with optimal comfort & ultra violet protection.

Parallel session 2C:

Medical & healthcare textiles

Location : LHC-114

Session Chair

Prof Manjeet Jassal

SPEAKERS

Viju S

Functionalized silk for surgical suture applications

Arindam Basu

Development of Smart Textiles for Medical Protective Care

Priyanka Gupta

Effect of domestic laundering on removal of bacterial contamination from nurses' white coats.

Harishkumar Narayana

Stress Memory Textile: Towards Designing Smart Medical Compression Stockings

Amarish Dubey

A Tassar Silk Cloth as a Charge Storage Device.

Rashedul Islam Rashed

Fabrication of low cost, scalable carbon-based conductive ink for E-textile application.

Mohammad Abu-Rous

Moisture sorption behaviour of man-made cellulose & its contribution to the comfort properties of multi-layered bedding items.

Nirmala Varghese

Effect of laundering on stretch, comfort, pressure values & fit of woven stretch fabrics for sari blouse.

Vrinda Malik

Si-Socks.

Himani Choudhary

Assessment of anti microbial properties of naturally mordanted fabrics for health.

TEA BREAK

17:30 - 17:45 hrs

POSTER SESSION & INNOVATION CONTEST

17:45 - 19:00 hrs

(Location : Central Atrium LHC)

Musical Program & Conference Dinner

19:00 - 21:30 hrs

(Location : Central Atrium LHC)

3 DAY

11th February 2018

Plenary Session III

(Location : LHC111)

Plenary Lecture 6

09:30 - 10:00 hrs

Critical Role of Design Thinking in Technical Textile Innovation

Prof. Parikshit Goswami - University of Huddersfield, UK.

Plenary Lecture 7

10:00 - 10:30 hrs

When a textile scientist meets biologists

Prof. Bhuvanesh Gupta - IIT Delhi

Plenary Lecture 8

10:30- 11:00 hrs

Denim & Sustainability

Anjani Prasad - Archroma India Ltd. India.

TEA BREAK : 11:00 - 11:30 hrs

Technical Session III : 11:30 - 13:00 hrs

Parallel session 3A:

Protective textiles

Location : LHC-108

Session Chair

Prof. Mohd. Rozi Ahmad

SPEAKERS

Ankita Srivastava

Development of Body Armor Material through Sequential Padding.

Aranya Ghosh

Tuning of impact energy absorption of Kevlar fabric by functionalized silica particles based shear thickening fluid.

Parallel session 3B:

Garment sizing & design

Location : LHC-111

Session Chair

Prof. Sybille Krzywinski

SPEAKERS

Lynn M Boorady

Sizing of Fire Fighter bunker gear for the U.S male population.

Inga Dabolina

Dynamic anthropometry for investigation of body movement comfort in protective jacket.

Parallel session 3C:

Culture & Design Practices

Location : LHC-114

Session Chair

Prof. Andrej Demsar

SPEAKERS

Almira Sadar

Multifunctionality: Fashion & Architecture.

Maria Rose Malone

Initiatives to bring together emerging design talent with manufacturing and retail opportunities in Portugal.

Ashis Kumar Samanta
Standardization by
Statistical Optimization of
the Flame Retardant Finish.

Hireni Mankodi
Stab Resistant Properties
of Sandwich Fabrics.

Rohit Prakash Naik
Development of Thermal
Insulative Nonwoven
Fabric Through Advance
Material Application.

Alka Goel
An ergonomics perspective
of uttarakhand weavers.

Eugenija Strazdiene
Integration of 3D
Scanning in Work Wear
Development Process.

Muhammad Awais
Modelling, designing &
digital representation of
outdoor and protective
clothes based on
geometrical, mechanical
& thermal characteristics.

Marzieh Javadi Toghchi
An electromagnetic
shielding maternity
garment: 3D virtual
mannequin prediction
based on weight gain
during pregnancy period.

Maneesh Kumar Mishra
Combined Analysis of
Anthropometric
Measures of 3D Foot
Models Obtained by
Expert Last & Foot
Scanner.

Devender Kharb
Indian Culture, Fashion
Design & Traditional Textiles.

Sanmitra Chitte
Ancient sustainable practices,
extreme affordability and its
Impact/influence on
contemporary Design practice

Vijayalakshmi D
Deconstructive &
reconstruction of clothing -
“Yes, your clothes have
afterlife”

Jayati Mukherjee
Geometry and form driven
wearables – Future directions
in Swimwear.

LUNCH : 13:00 - 14:00 hrs

Technical Session IV : 14:00 - 15:30 hrs

Parallel session 4A:
Dyeing and finishing I

Location : LHC-108

Session Chair

Prof. Ashis Kr Samanta

SPEAKERS

Richa Sharma

Photo-luminescent
Printed Fabrics:

An innovative solution
to natural nightlight.

Parallel session 4B:
Fashion, education, art &
craft

Location : LHC-111

Session Chair

Prof. Parikshit Goswami

SPEAKERS

Andrej Demsar

Time of Changes

Parallel session 4C:
Technical textiles I

Location : LHC-114

Session Chair

Prof. Baljinder Kandola

SPEAKERS

Sanchi Arora

Grafting of ZnO nanorods on
UHMWPE fabrics for
improved impact resistance.

Javed Sheikh

Development of Multifunctional Cellulose fabric using Green in-situ synthesis of Silver nanoparticles.

Deepthi Pargai

Optimization of process parameters for application of Citrus limetta microcapsules on cotton to modify the UV protective properties.

Mariyam Adnan

A Study on the Efficiency of Lavender Microcapsules on Silk/ Lyocell Blended Fabrics.

Pratibha Thapa

Eco-friendly Dyeing & Antibacterial Finishing on textile through Madder & rinds of Bael.

Alison Elizabeth Gault

Deeds not words, an exploration into the women's suffrage movement in Ulster through the fashion & freedom project.

Zohre Montazer

An excursion into the elegance of Persian textile & its perspective on fashion tourism.

Abhishek Srivastava

Drivers of postgraduate program in Design.

Rajesh Kumar

Fashion and ecological impact: design practices by institutes of higher education.

Nivedita Satishchandra

Recycling silk saris for value addition.

Devarun Nath

Improved jute based sound absorber.

Prasun Mathur

Application of Sulphur based compounds as a Flame Retardants on Nylon Textiles.

Atiyyah Haji Musa

Fabric handle assessment of knitted mattress fabrics treated with flame retardant finishes using fabric touch tester device.

Edith Classen

Innovative finishing approaches for improved repellency towards metal splashes.

TEA BREAK

15:30 - 16:00 hrs

Technical Session V : 16:00 - 17:30 hrs**Parallel session 5A:**

Dyeing and finishing II
Location : LHC-114

Session Chair

Prof. Kushal Sen

SPEAKERS**Anu Mishra**

Photo-catalytic decolorization of rhodamine B dye solution using TiO₂ coated cotton fabric.

Parallel session 5B:

Sustainable supply chain II
Location : LHC108

Session Chair

Prof. Alison E Gault

SPEAKERS**Vibha B Kalaya**

Karigars: A Story of those hands that breathe life into the Royal Costumes of Kachchh.

Parallel session 5C:

Technical Textiles II
Location : LHC111

Session Chair

Prof. R Alagirusamy

SPEAKERS**G Thilagavathy**

Investigation of Sound Absorption Characteristics of Nonwoven Coir Mats.

Kartick Samanta

Suitable Chemical Modification of Indian Coarser Yak Wool for Development of Jute/Yak.

Babita Bhandari

Optimization of dyeing conditions of silk using an invasive weed plant via response surface methodology.

Anu Sharma

Effect of Softening finishes on Camel hair & Merino wool blended handwoven double cloth from Napasar, Rajasthan: A sustainable approach.

Kiruthika S D

Sustainable production by modifying reduction clearing in polyester dyeing.

Santosh Kumar Tarai

Entrepreneurial Development in Handloom & Handicrafts Sector.

Madhu Sharan

Re-inventing Khadi - a source for narrative textiles.

Bhawna Welturkar

Upcycling in Household – a key to reduce textile waste.

Anu H Gupta

Crafting lives: Redefining culture & artisan living in the state of Punjab, India.

Asiya Chaudhary

Challenges Faced by the Indian Meditech Segment of Technical Textiles Industry.

SK Som

Functional textiles & exotic new fibres & blends.

Joel Petersen

Enzyme, Ultrasonic & combined treatments on paper yarn fabrics - enhancement of tactile properties.

Monika Sree

Interactive wound dressing material with herbal extract.

Valedictory & Prize Distribution

(Location : LHC111)

17:30 - 18:30 hrs
