

Future Technical Textiles

in conjunction with 6th International Istanbul Textile Conference

Venue

15th and 17th October 2014 Sultanahmet, Istanbul - Turkey

16th October 2014 ITA R&D Center, Istanbul - Turkey

Program

1. Medical Textiles
2. Technical Textiles
3. Smart and Interactive Textiles
4. Surface Coatings
5. Advances in Apparel Design
6. Ecological Textiles
7. Composites Materials
8. Textile Innovations
9. Computer Technology for Textiles and Apparel

Wednesday, October 15, 2014

08:00 -10:00	Registration
	PLENARY SESSION (Nihad Sayar Hall)
09:00 -10:00	Conference Opening Ceremony – With Welcome Speeches and Greetings
10:00	Yusuf Ulcay Uludağ University, Bursa, Turkey Turkish technical textiles market
10:20	Elias Siores University of Bolton, Bolton, UK Smart functional materials for energy harvesting: from laboratory to commercialisation
10:40	Tilak Dias Nottingham Trent University, UK Advanced textiles and wearables
11:00 -11:20	Coffee Break

Wednesday, October 15, 2014	Wednesday, October 15, 2014
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Technical Textiles <i>Parallel Session (Nihad Sayar Hall)</i>		Medical Textiles <i>Parallel Session (Senato Hall)</i>	
11:20	Bayram ASLAN RWTH Aachen University, Aachen, Germany Packaging of textile semi-finished products: challenges and solutions	11:20	C. Vineis ¹ , C. Tonetti ¹ , A. Varesano ¹ , G. Mazzuchetti ¹ , S. Ortelli ² , A.L. Costa ² , M. Periolatto ³ , F. Ferrero ³ ¹ CNR-ISMAR, Institute for Macromolecular Studies, Biella, Italy ² CNR-ISTEC, Institute of Science and Technology for Ceramics, Faenza (RA), Italy ³ Politecnico di Torino, Department of Applied Science and Technology, Turin, Italy Production of antibacterial textiles with a reduced leaching of biocidal agents
11:40	Md. Humaun KABIR National Institute of Textile Engineering and Research, Dhaka, Bangladesh Future and Prospect of RMG sector of Bangladesh	11:40	R. Erdem ¹ , M. Akarsu ² , E. Burunkaya ² , Ö. Erdem ³ , M. Akalın ⁴ ¹ Textile Technology, Serik Vocational School of Higher Education, Akdeniz University, Antalya, Turkey ² Chemistry, Faculty of Science, Akdeniz University, Antalya, Turkey ³ Chemistry, Institute of Natural and Applied Science, Cukurova University, Adana, Turkey ⁴ Textile Engineering, Technology Faculty, Marmara University, Istanbul, Turkey Morphological analysis of polycaprolactone nanofibers containing nanohydroxyapatite particles
12:00	Fatma GÖKTEPE Namık Kemal University, Turkey Carbon Nanotube Yarns for Artificial Muscles and Flexible Photovoltaics	12:00	F. Debbabi ¹ , S. B. Abdesslem ^{1,2} ¹ Monastir University, Textile Engineering Laboratory, Tunisia ² Monastir University, National Engineering School of Monastir, Tunisia Impact of hot-stretching treatment on physical and mechanical properties of braided polyamide suture
12:20	Karin EUFINGER Centexbel Gent, Zwijnaarde, Belgium Innovative Surface Treatments of Textile Yarns and Fabrics	12:20	S. Duzyer ¹ , A. Hockenberger ¹ , S. Sinha-Ray ² , A.L. Yarin ² ¹ Uludag University, Department of Textile Engineering, Bursa, Turkey ² University of Illinois at Chicago, Department of Mechanical and Industrial Engineering, Chicago, USA. Controlled Release of Fluorescent Dye and Vitamin Loaded PET Nanofibers

12:40 - 14:00	LUNCH
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Wednesday, October 15, 2014	Wednesday, October 15, 2014
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Technical Textiles <i>Parallel Session (Nihad Sayar Hall)</i>		Surface Coatings and Chemistry <i>Parallel Session (Senato Hall)</i>	
14:00	R. Stolz ¹ , T. Vad ¹ , S. Dabringhaus ¹ , G. Seide ¹ , T. Gries ¹ , T. Weirich ² , J. Wulffhorst ³ ¹ Institut für Textiltechnik (ITA), RWTH Aachen University, Aachen, Germany ² Central Facility for Electron Microscopy (GFE), RWTH-Aachen University, Aachen, Germany ³ Freudenberg & Co. KG, Weinheim, Germany Effects on fiber formation in melt spinning due to 1-D nano-particle modification in thermoplastic polymers	14:00	C. Bach ¹ , T. Gries ¹ , S. Jockenhoevel ^{1,2} ¹ Institut für Textiltechnik der RWTH Aachen University, Aachen, Germany ² Department of Applied Medical Engineering - Helmholtz Institute for Biomedical Engineering, RWTH Aachen University, Aachen, Germany Digital smart printing – cloud based design and production

14:20	<p><u>N. Azizi¹, Y. Chevalier², M. Majdoub¹</u> ¹ Laboratoire des Interfaces et Matériaux Avancés (LIMA), Faculté des Sciences, Bd. de l'Environnement 5019 Monastir, Tunisia ² Laboratoire d'Automatique et de Génie des Procédés (LAGEP), Université Claude Bernard Lyon 1, UMR CNRS 5007, 69622 Villeurbanne Cedex, France Elaboration and characterization of new microcapsules for cosmeto-textiles</p>	14:20	<p><u>P. Bigambo¹, C. Carr¹, M. Sumner¹, M. Rigout²</u> ¹University of Leeds, Leeds, LS2 9JT, UK. ²University of Manchester, Manchester, M13 9PL, UK. Stripping of reactive dyes from waste cotton fabrics for reuse through fibre regeneration process</p>
14:40	<p><u>N. Onar¹, G. Mete¹, A. Akşit², B. Kutlu², E. Çelik³</u> ¹Pamukkale University, Faculty of Engineering, Textile Engineering Department, Denizli, Turkey ²Dokuz Eylül University, Faculty of Engineering, Textile Engineering Department, Izmir, Turkey ³Dokuz Eylül University, Faculty of Engineering, Materials and Metallurgy Engineering Department, Izmir, Turkey Development of water and oil repellent cotton fabric by sol-gel coating</p>	14:40	<p><u>S.Canbolat¹, D.Kut², P.Tiryaki²,F.Demir²</u> ¹Istanbul Commerce University, Faculty of Engineering and Design, Department of Fashion and Textile, Istanbul, Turkey ²Uludag University, Faculty of Engineering, Department of Textile Engineering, Bursa, Turkey Investigation of the effects of oxygen and nitrogen plasma treatment on the flax fabrics</p>
15:00	<p><u>A. Zulifqar¹, M. A. Nazeer², M. Abbas¹, Q. Nawaz¹, M. A. Raza¹</u> ¹Faculty of Engineering and Technology, Department of Textile Engineering, National Textile University, Faisalabad, Pakistan ²Faculty of Engineering, Department of Bio-Medical Sciences & Engineering, KOC University, Istanbul, Turkey Development and comparison of different sound absorbent woven fabrics</p>	15:00	<p><u>N. Aral, F.B. Nergis, C. Candan</u> Istanbul Technical University, Faculty of Textile Design and Technology Faculty, Department of Textile Engineering, Istanbul, Turkey X-ray attenuation properties of metal powder-silicone rubber coated fabrics</p>
15:20 – 15:40 Coffee Break			
Wednesday, October 15, 2014		Wednesday, October 15, 2014	
Textile Innovations <i>Parallel Session (Nihad Sayar Hall)</i>		Computer Technology for Textiles and Apparel <i>Parallel Session (Senato Hall)</i>	
15:40	<p><u>C. Sasse¹, C. Leithäuser², D. Hietel², G. Seide¹, T. Gries¹</u> ¹Institut für Textiltechnik (ITA) der RWTH Aachen University, Otto-Blumenthal-Straße 1, 52074 Aachen, Germany ²Fraunhofer Institute for Industrial Mathematics ITWM, Fraunhofer-Platz 1, 67663 Kaiserslautern, Germany Development of a design tool for polymer spin packets</p>	15:40	<p><u>O.V.Surikova, G.I.Surikova, Kuzmichev</u> Clothing Design Department, Ivanovo Textile Institute, Ivanovo State Polytechnic University, Russia Data Base for the New Automatic Pattern design Method</p>
16:00	<p><u>S. Ö. Hacıoğlu¹, O. Babaarslan</u> Çukurova University, Faculty of Engineering and Architecture, Department of Textile Engineering, Adana, Turkey Development of special filament yarns on a newly designed laboratory type yarn drawing machine</p>	16:00	<p><u>M. Akdere, F. Pohlkemper, G. Seide, T. Gries</u> Institut für Textiltechnik (ITA) of the RWTH Aachen University, Germany Simulation model for stabilization of carbonfibers</p>
16:20	<p><u>F. Kalli</u> Itru Group Ltd, Istanbul, Topkapı Centre, Turkey Itru UAK-1 +1 fibre length and neps size distribution measurement from fibre beard</p>	16:20	<p><u>M. Korkmaz, G. Durur</u> Pamukkale University, Department of Textile, Denizli, Turkey Modelling and analysis of three dimensional orthogonal woven fabrics with finite element method</p>
16:40	<p><u>M. Cetin, C. Niedringhaus, T. Gries</u> Institut für Textiltechnik (ITA) of the RWTH Aachen University, Germany Development of an inline quality measurement system for tufting process</p>	16:40	<p><u>E. Buyukaslan¹, S. Jevšnik², F. Kalaoglu²</u> ¹Istanbul Bilgi University, Fashion Design, Istanbul, Turkey ²Istanbul Technical University, Textile Technology and Design Faculty, Istanbul, Turkey The influence of weave construction on 3d garment simulation</p>

Thursday, October 16, 2014

ITA R&D Centre, Halkalı

08:00 - 09:00

Transfer: Sultanahmet to the ITA R&D Center, Halkalı

PLENARY SESSION (ITA-Main Hall)

09:00 - 10:00

Coffee and Welcome Speeches

10:00

Thomas Gries
RWTH Aachen University, Aachen, Germany
Materials and Production Technologies for the Future Textile Industry: Innovative, Effective and Intelligent

10:20

Tahir Shah
University of Bolton, Bolton, UK
Energy harvesting "3-D spacer" based piezoelectric textiles

10:40

Asis Patnaik
CSIR Materials Science and Manu
Alternative Thermal and Sound Insulation Materials for the Building Industries

11:00

Uwe, Merklein
GF 3T GmbH (RWTH Aachen University), Aachen, Germany
An Introduction of Textile Technologie Transfer (3T)

11:20 – 11:30

Coffee Break

11:30

Subbiyan Rajendran
University of Bolton, Bolton, UK
Novel Medical Devices for Healthcare and Wellbeing

11:50

Prof Corinne Greyling
Technology Station in Clothing and Textiles, Cape Peninsula University of Technology, Bellville, 7535, South Africa
Electrospinning of Polyacrylonitrile Nanofibres with Additives; Study of Crystallinity and Molecular Orientation

12:10

Alessio Varesano
CNR-ISMAR, Institute for the Macromolecular Studies, Biella, Italy
Keratin Nanofibre Membranes With Inorganic Nanoparticles For Filtration

12:30

Carlos Rovira Borràs
Head of Smart Objects & Functional Textiles, CETEMMSA, Spain
Smart wearable systems to avoid falling asleep while driving

12:50 – 14:00

LUNCH

Thursday, October 16, 2014

Thursday, October 16, 2014

Smart and Interactive Textiles *Parallel Session (ITA-Main Hall)*

Technical Textiles *Parallel Session (ITA Hall)*

14:00

J. Militký, D. Křemenáková, R. Mishra
Textile Faculty, Dept. of Material Engineering,
Studentská 2, Liberec 461 17 Czech Republic
Side emitting polymeric optical fibres for safety textiles

14:00

F. Varghese¹, C.J. Thampi²
¹Managing Director: Kerala State Industrial Enterprises Ltd., Government of Kerala, Trivandrum, Kerala, India
²President : T.M. Natural Resource Research and Development Centre, Trivandrum, Kerala, India
Coco-eco textiles-golden fiber from god's own country

14:20

I. Cabral, A.P. Souto
University of Minho, Guimarães, Campus de Azurém,
4800-058, Portugal
Shape memory textiles: designing origami light filters

14:20

Y. Qin
Jiaxing College, Material and Textile Engineering, China
Gelling fibers from alginate

14:40

P. Abel¹, M. Linke², T. Gries¹
¹Institut für Textiltechnik (ITA) of RWTH Aachen University, Germany
²Hamburg University of Applied Sciences, Department Fahrzeugtechnik und Flugzeugbau, Germany
Reinforcement of co-bonded patch repairs for structural composites

14:40

M. Topalbekiroğlu, C. Gunesoglu, Z. Ünal
Gaziantep University, Textile Engineering Department, Gaziantep, Turkey
Investigation of the some performance properties of knitted fabrics produced by soybean and organic cotton yarn

15:00

Y. Ulcay, R. Tural, S. Eren
University of Uludag, Bursa, Turkey
Investigation of the mechanical and electrical properties of polyester yarns doped barium titanate

15:00

H. Davioğlu¹, N. Merdan¹, S. Canbolat¹, E. D. Kocak²
¹Istanbul Commerce University, Faculty of Engineering and Design, Textile Engineering, Istanbul, Turkey
²Marmara University, Technology Faculty, Textile Engineering, Istanbul, Turkey
Investigation of dyeability behavior of banana fibers with natural dye extract from turmeric plants

15:20 – 15:40

Coffee Break

Thursday, October 16, 2014

Thursday, October 16, 2014

Surface Coatings and Chemistry

Parallel Session (ITA-Main Hall)

Textile Innovations

Parallel Session (ITA Hall)

15:40	E. Raafat, B.G. Gabr Helwan University, Apparel Design & Technology Dept., Faculty of Applied Arts, Cairo, Egypt Efficiency of nano QACs antibacterial treated garments	15:40	C.Gunesoglu ¹ , M.Topalbekiroğlu ¹ , D.Yarbasan ¹ , O.Dal ¹ , O.Celen ² , M.Sezen ² , A.Kabalcioglu ³ ¹ Gaziantep University, Textile Engineering Department, Gaziantep, Turkey ² Korteks Yarn, BTSO, Sari Cad. No:3, Bursa, Turkey ³ Kabalcioglu LTD., 4.Org. San. Bol., No:14, Gaziantep, Turkey The mechanical and emse properties of tufted carpets produced by pet / fe2o3 composite yarn
16:00	W. Enab, M. Mekawy, A. A. Moneim Egypt Japan University of Science and Technology, New Borg El- Arab City, Alexandria, Egypt Surface functional treatment of surgical sutures with antimicrobial agent	16:00	P. Abel ¹ , P. Kreuer ¹ , B. Abbas ² , T. Fuertjes ³ , T. Gries ¹ ¹ Institut für Textiltechnik (ITA) of RWTH Aachen University, Germany ² Institut für Unternehmenskybernetik e.V. (IfU), Germany ³ Werkzeugmaschinenlabor (WZL) der RWTH Aachen University, Germany Continuous quality control and assurance in mass production of multiaxial non-crimp fabrics
16:20	M. B. Abdelkader ¹ , N. Azizi ¹ , Y. Chevalier ² , M. Majdoub ¹ ¹ Laboratoire des Interfaces et Matériaux Avancés (LIMA), Faculté des Sciences, Bd. de l'Environnement 5019 Monastir, Tunisia ² Laboratoire d'Automatique et de Génie des Procédés (LAGEP), Université Claude Bernard Lyon1, UMR CNRS 5007, 43bd du 11 Novembre 1918, 69622 Villeurbanne Cedex, France New biobased microparticles: elaboration, characterization and application on polyamide substrate	16:20	E. Papachristou, N.Bilalis Technical University of Crete, Department of Production Engineering and Management, 73100 Chania Greece How to integrate recent development in technology with Digital Prototype textile and apparel applications
16:40	T. Aamir ¹ , M. A. Nazeer ² , A. Hussain ³ , N. Bhatti ³ , Z. Javed ⁴ , R. Masood ⁴ ¹ National Textile University, Department of Textile & Apparel Design, Pakistan ² Faculty of Engineering, KOC University, Istanbul, Turkey ³ G.C University, Department of Home Economics, Faisalabad, Pakistan ⁴ National Textile University, Faculty of Engineering & Technology, Faisalabad, Pakistan Effect of fragrance finish on mechanical and comfort properties of digitally printed fabric	16:40	A.M. Sarıışık ¹ , Ö. Kuş ¹ , G.C. Türkoğlu ¹ , B. Kutlu ¹ , S. Sakin ² , H.A. Karavana ³ ¹ Dokuz Eylül University, Department of Textile Engineering, Izmir, Turkey ² Sun Holding Research&Development Center, Izmir, Turkey ³ Ege University, Department of Leather Engineering, Izmir, Turkey Antimicrobial applications in three-dimensional knit spacer fabric for footwear

Poster Session A on Technical Textiles at ITA R&D Centre (Thursday)

08:30 - 10:00 Poster hanging times
17:00 - 18:00 Poster presentation times
19:00 Poster removal times

NOTE: To ensure that all posters are hung in time for the opening of each Poster Session. Stand by your poster for the duration of the Poster Session.

18:30 – 21:30 Cocktail and Gala Dinner

Friday, October 17, 2014		Friday, October 17, 2014		Friday, October 17, 2014	
Ecological Textiles <i>Parallel Session (Nihad Sayar Hall)</i>		Smart and Interactive Textiles <i>Parallel Session (Senato Hall)</i>		Technical Textiles <i>Parallel Session (YL-DR Hall)</i>	
09:00	Z. Ali Noonari ¹ , <u>W. H. Solangi</u> ¹ , A. A. Channa ¹ , A. H. Memon ¹ Pak-Korea Garment Technology Institute, Karachi, Pakistan ² Enviroment Eng. & Management Institute MUET Jamshoro, Pakistan Comparison of natural and synthetic anti migrants in continuous dyeing of 100% polyester	09:00	<u>D. Vatansever Bayramol</u> ¹ , N. Soin ² , T. Shah ² and E. Siores ² , R.L. Hadimani ³ , ¹ Department of Textile Engineering, Namik Kemal University, Corlu-Tekirdag, TR ² Institute for Materials Research and Innovation, University of Bolton, Bolton BL3 5AB, UK ³ Department of Electrical and Computer Engineering, Iowa State University, Ames, IA 50011, USA Piezoelectric characteristics of melt extruded and poled polypropylene monofilaments	09:00	<u>N. D. Gültekin</u> ¹ , İ. Usta ² ¹ Marmara University, Department of Textile Education, Istanbul, Turkey ² Marmara University, Department of Textile Engineering, Istanbul, Turkey Investigation of thermal and electrical conductivity properties of carbon black coated cotton fabrics
09:20	<u>A. H. Taieb</u> ^{1,2} , S. Msahli ¹ , F. Sakly ¹ ¹ LGtex Ksar Hellal, Tunisia, ² Design department of ISAM Sfax, An eco-design approach for the functional textile	09:20	<u>M.Z. Bilir</u> , F. Duran, B.H. Gürcüm University of Gazi, Ankara, Turkey A Piezo-resistive application in textile design	09:20	<u>S. Mahmoudian</u> ¹ , M. Imran ² , M. R. Sazegar ³ ¹ Department of Textile Engineering, Kashan Branch, Islamic Azad University, Kashan, Iran ² Department of Chemical Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia ³ Ibnu Sina Institute for Fundamental Science Studies, Faculty of Science, Universiti Teknologi Malaysia (UTM), Malaysia Preparation of nanocomposite fibres based on cellulose and graphene nanoplatelets using ionic liquids
09:40	Z. A. Noonari Pak-Korea Garment Technology Institute Karachi Ministry of Textile Industry Government of Pakistan, Pakistan Effect of different types of washes on the fabric strength of denim	09:40	<u>F. Abidi</u> , T. Hriz, S. Msahli, F. Sakli University of Monastir, Textile Engineering Laboratory of Ksar Hellal, , Tunisia Geometry of handmade carpet	09:40	<u>F.Z.Engin Sagirli</u> ¹ , C.Unsal ¹ , A.S.Sarac ^{2,3} , E.S.Kayali ⁴ ¹ Department of Textile Engineering, Faculty of Textile Technology and Design, Istanbul Technical University, Turkey ² Department of Chemistry, Polymer Science and Engineering, Istanbul Technical University, Turkey ³ Nanoscience & Nanoengineering, Istanbul Technical University, Turkey ⁴ Department of Metallurgical and Materials Engineering, Faculty of Chemical and Metallurgical Engineering, Istanbul Technical University, Turkey Effects of surfactant type on poly (acrylonitrile-co-methylacrylate) latex synthesizes
10:00	<u>E. Buyukaslan</u> ¹ , S. Jevšnik ² , F. Kalaoglu ² ¹ Istanbul Bilgi University, Fashion Design, Istanbul, Turkey ² Istanbul Technical University, Textile Technology and Design Faculty, Istanbul, Turkey A sustainable approach to collect post-consumer textile waste in developing countries	10:00	<u>R. Atakan</u> , H. Karakaş Istanbul Technical University of Technology, Istanbul, Turkey Design of nonwoven carpet composites to develop sound insulation for automotive textile applications	10:00	K. V. P. Singh NIT, Jalandhar, India Diagnostic case study by comparing the feel factor of ideal fabric with reference fabric to quantify reduction in harshness of friction spun yarn
10:20 – 10:40 Coffee Break					

Friday, October 17, 2014		Friday, October 17, 2014		Friday, October 17, 2014	
Surface Coatings and Chemistry <i>Parallel Session (Nihad Sayar Hall)</i>		Technical Textiles <i>Parallel Session (Senato Hall)</i>		Technical Textiles <i>Parallel Session (YL-DR Hall)</i>	
10:40	<p>W. H. Solangi¹, A. H. Memon², M. Q. Khan³, A. A. Channa¹ ¹Pak-Korea Garment Technology Institute, Karachi, Pakistan ²Environment Engg. & Management Institute MUET Jamshoro, Pakistan ³NTU-SFDAC Karachi Pakistan Effect of the sequestering agents on the light fastness of the reactive dyes</p>	10:40	<p>R. Simsek¹, M. Erol², M. Calisir², A. Kilic² ¹Marmara University, Faculty of Technology, Department of Textile Engineering, Istanbul Turkey. ²Istanbul Technical University, TEMAG Labs, Istanbul, Turkey A Novel method to produce hydrophobic surface: inorganic material doped stabilized-PAN nanofiber</p>	10:40	<p>N. Kizildag¹, N. Ucar², N. Demirsoy², E. Sezer², B. Ustamehmetoğlu², O. Eren², A. Onen², I. Karacan³, S. Guner⁴ ¹Istanbul Technical University, Department of Textile Engineering, Istanbul, Turkey ²Istanbul Technical University, Department of Chemistry, Istanbul, Turkey ³Erciyes University, Department of Textile Engineering, Kayseri, Turkey ⁴Istanbul Technical University, Department of Chemical Engineering, Turkey The effects of dopant and solvent on morphology, conductivity and mechanical properties of polyacrylonitrile (PAN) / polyaniline (PANI) composite nanofibers</p>
11:00	<p>Z. Yildiz¹, I. Usta², A. Gungor³, H. A. Onen⁴ ¹Istanbul Technical University, Institute of Sciences and Technology, Department of Polymer Science and Technology, Istanbul, Turkey ²Marmara University, Faculty of Technology, Department of Textile Engineering, Istanbul, Turkey ³Marmara University, Faculty of Arts and Sciences, Department of Chemistry, Istanbul, Turkey ⁴Istanbul Technical University, Faculty of Arts and Sciences, Department of Chemistry, Istanbul, Turkey Investigation of polypyrrole coated cotton fabrics as electromagnetic shielding material</p>	11:00	<p>N. D. Gültekin¹, N. Uçar² ¹Marmara University, Department of Textile Education, Istanbul, Turkey ²Istanbul Technical University, Department of Textile Engineering, Istanbul, Turkey Investigation of thermal properties of polyacrylonitrile (PAN) nanofibers containing zeolite nanoparticles</p>	11:00	<p>H. Jamshaid, R. Mishra Technical University of Liberec, Faculty of Textile Engineering, Department of Material Engineering, Liberec, Czech Republic Thermal and mechanical properties of woven basalt fabric reinforced hybrid & non-hybrid composites</p>
11:20	<p>E. D. Koçak¹, M. Kılınc², S. Canbolat², H. Dayioğlu², N. Merdan², F. Akın³ ¹Marmara University, Faculty of Technology, Department of Textile Engineering, Istanbul/Turkey ²Istanbul Commercial University, Faculty of Design and Engineering, Department of Fashion and Textile, Istanbul, Turkey ³Abant İzzet Baysal University, Vocational High School, Bolu, Turkey Investigation of the effect of the dyeing method on wool fabrics dyed with natural dyes extracted from vaccinium corymbosum L.</p>	11:20	<p>M. O. Gök, B. H. Gürcüm Gazi University, Faculty of Art and Design, Department of Textile Design, Ankara, Turkey The new prototype that thermal conductivity measurement with sensors</p>	11:20	<p>A. Bical¹, E. Çelebi^{1,2}, G. Özcan¹, N. Soydan² ¹Istanbul Technical University, Istanbul, Turkey ²EKSOY KİMYA SANAYİ VE TİCARET A.Ş., Tekirdağ, Turkey Improvement of chemical finish for durable flame retardancy of CO/PES blends</p>
11:40	<p>R. Alkan¹, E. Torgan², C. Aydın², R. Karadag^{2,3} ¹Kocaeli University, Kosekoy M.Y.O., Microbiology Laboratory, 41135 Kocaeli, Turkey ²TCF-Armaggan, Cultural Heritage Preservation and Natural Dyes Laboratory, Istanbul, Turkey ³Marmara University, Faculty of Fine Arts, Natural Dyes Laboratory, 34718 Kadıkoy-Istanbul, Turkey Determination of antimicrobial activity of the dyed silk fabrics with some natural dyes</p>	11:40	<p>S.İ. Mistik¹, M. Kayar² ¹Marmara University Faculty of Technology Department of Textile Engineering, Istanbul, Turkey ²Marmara University Faculty of Technical Education Department of Textile Studies, Istanbul, Turkey Effect of surface treatments on tensile and charpy impact strength properties of cotton-viscose waste fiber reinforced polymer composites</p>	11:40	<p>M. E. Ince¹, A.F. M. Seyam², M. H. Mohamed² ¹Gaziantep University, Textile Engineering Department, Gaziantep, Turkey ²North Carolina State University, College of Textiles, Raleigh, 27695, US Generalized geometric modelling of 3d orthogonal woven preforms: the rectangular cross section case</p>
12:00 – 14:00 LUNCH					

Friday, October 17, 2014		Friday, October 17, 2014	
Advances in Apparel Design <i>Parallel Session (Nihad Sayar Hall)</i>		Medical Textiles <i>Parallel Session (Senato Hall)</i>	
14:00	<p><u>E. Akcagun</u>¹, V. Dal², N. Oz Ceviz³, Z. Yildiz⁴</p> <p>¹Mimar Sinan Fine Arts University, Vocational School, Istanbul, Turkey</p> <p>²Marmara University, Faculty of Technology, Department of Textile Engineering, Istanbul, Turkey</p> <p>³Marmara University / Vocational School of Technical Sciences, Istanbul, Turkey</p> <p>⁴Istanbul Technical University, Institute of Sciences and Technology, Department of Polymer Science and Technology, Istanbul, Turkey</p> <p>The effects of physical properties of woollen fabrics on thermal comfort</p>	14:00	<p><u>S. Guney</u>¹, I. Üçgöl¹, A. Koyun²</p> <p>¹Süleyman Demirel University, Department of Textile Engineering, Isparta, Turkey</p> <p>²Süleyman Demirel University, Department of Computer Engineering, Isparta, Turkey</p> <p>A study about thermal and mechanical characteristics of the medical textile material designed for providing peristaltic motion</p>
14:20	<p>M. Akalin¹, G. Turhan²</p> <p>¹Marmara University Faculty of Technology Department of Textile Engineering, Istanbul, Turkey</p> <p>²Marmara University Faculty of Technical Education Department of Textile Studies, Istanbul, Turkey</p> <p>An exploratory study on the effects of consumer demographics on purchase intention: smart t-shirt product for Turkish men</p>	14:20	<p>M. H. Peerzada¹, P. Potluri², P. Withers³, Sadaf A. Abbasi¹</p> <p>¹Department of Textile Engineering, Mehran University of Engineering & Technology Jamshoro. Pakistan</p> <p>²North West Composites Centre</p> <p>³University of Manchester Aerospace Research Institute (UMARI) University of Manchester, Manchester, UK</p> <p>Tomography based analysis of Uni-directional woven composites</p>
14:40	<p>D. T. Cebeci</p> <p>Marmara University , Technical Sciences Vocational School of Higher Education, Istanbul, Turkey</p> <p>Sustainable textiles and life-cycle processes in infant clothing</p>	14:40	<p>A.M. Sarıışık, <u>G.E. Kartal</u></p> <p>Dokuz Eylül University, Faculty of Engineering Department of Textile Engineering, Izmir, Turkey</p> <p>Disposable mask design for odour pollution in the work environment</p>
15:00	<p>S. Mokhtar, E.R. Ramirez</p> <p>School of Design, Victoria University of Wellington, Wellington, NZ.</p> <p>'Empathear' - A wearable technology scarf simulating auditory hallucinations to affect empathy in siblings of voice hearers.</p>	15:00	<p><u>E. K. Zadeh</u>, S. Mojtaba. Zebarjad, K.Jjhanghorban</p> <p>Shiraz University, Department of Materials Science and Engineering, School of Engineering, Shiraz, Iran</p> <p>Nitrogen-doped titanium dioxide photocatalysts for visible response applicable on self-cleaning property of textiles</p>
15:30	Closing Ceremony		

Poster Session B on Textile Chemistry and General Textiles at Sultanahmet Campus (Friday)

08:30 - 10:00 Poster hanging times

12:00 - 13:00 Poster presentation times

15:00 Poster removal times

NOTE: To ensure that all posters are hung in time for the opening of each Poster Session.

Stand by your poster for the duration of the Poster Session.

Poster Sessions A, Thursday, October 16, 2014
ITA R&D Center, Halkali

P-01	A. Ragaišienė, J. Rusinavičiūtė Kaunas University of Technology, Kaunas, Studentų str. 56, LT-51424, Lithuania Design and analysis of protein fiber yarn for medical textiles
P-02	D. Milasienė, R. Ivanauskas Kaunas University of Technology, Kaunas, K. Donelaičio St. 73, LT-44029, Lithuania Peculiarities of formation the silver selenide layer on the silicone coated polyamide cloth
P-03	E. Mbise ¹ , R. Morris ² , T. Dias ¹ , W. Hurley ¹ ¹ School of Art & Design, Nottingham Trent University, Burton Street, Nottingham NG1 4BU, UK ² School Science and Technology, Nottingham Trent University, Clifton campus, Nottingham, UK Design and manufacture of heated textiles
P-04	H. Yalcin ¹ , Y. Akgul ^{1,2} , R. Simsek ¹ , A. Hassanin ^{1,3} , A. Kilic ¹ , A. Demir ¹ ¹ TEMAG Labs, Istanbul Technical University, Istanbul, Turkey ² Karabuk University, Karabük, Turkey ³ Alexandria University, Textile Engineering Department, Alexandria, EGYPT. Mechanical properties of centrifugally spun nanofibers
P-05	T. Schlüter ¹ , J. Struebig ¹ , G. Seide ¹ , Y. Gloy ¹ , T. Gries ¹ , L. Van der Schueren ² , T. Krooß ³ ¹ Institut für Textiltechnik of RWTH Aachen University (ITA), Otto-Blumenthal-Strasse 1, 52074 Aachen, Germany. ² Centexbel, Technologiepark 7, 9052 Gent, Belgium ³ Institut für Verbundwerkstoff GmbH, Erwin-Schrödinger-Straße 58, D-67663 Kaiserslautern Characterization of mono- and multifilament yarns based on polymer blend systems for the textile and composite market
P-06	J. Lemm, K. Lee, G. Seide, T. Gries Institut für Textiltechnik Trends in Ambient Assistant Working - Current and future utilization rates of intelligent assistance systems in work clothes for production and logistics
P-07	Y. Büyükkakıncı ¹ , H. Güçlü ² ¹ Istanbul Aydın University Engineering Faculty, Department of Textile Engineering, Istanbul, Turkey ² Marmara University, Vocational School of Health Related Professions Istanbul, Turkey Antibacterial properties of tin-finished textiles
P-08	V. Yalı, F. Göktepe Namık Kemal University, Çorlu Faculty of Engineering, Tekirdağ, Turkey Investigation of structural and mechanical properties of high performance yarns produced by spinnable carbon nanotubes
P-09	R. Stolz ¹ , T. Vad, W ¹ . Steinmann ¹ , G. Seide ¹ , T. Gries ¹ , K. Klopp ² , K. Bender ³ ¹ Institut für Textiltechnik (ITA), RWTH Aachen University, Aachen, Germany ² Heimbach GmbH & Co. KG, Düren, Germany ³ EMS-CHEMIE AG, Domat/Ems, Switzerland Effects on fiber properties of meltspun PA6 fibers due to modification with 2-D nanoparticles
P-10	M. Uzun ¹ , C. Bach ¹ , T. Gries ¹ , S. Jockenhoeve ^{1,2} ¹ Institut für Textiltechnik (ITA), RWTH Aachen University, Aachen, Germany ² Department of Applied Medical Engineering, Helmholtz Institute for Biomedical Engineering, RWTH Aachen University, Aachen, Germany A study on the effect of vitamins on PH properties of wound dressings under controlled temperature
P-11	M. Uzun ¹ , C. Bach ¹ , T. Gries ¹ , S. Jockenhoeve ^{1,2} ¹ Institut für Textiltechnik (ITA), RWTH Aachen University, Aachen, Germany ² Department of Applied Medical Engineering, Helmholtz Institute for Biomedical Engineering, RWTH Aachen University, Aachen, Germany A Comparative Study on Conventional and Hollow Viscose Fibres based Nonwoven Fabrics
P-12	I. Noll, N. Vestweber, G. Seide, Prof. Gries Institute for Textiles of the RWTH Aachen University, Otto-Blumenthal-Str. 1, 52074 Aachen, Germany Polyetherimide fibers and polyetherimide/carbon composites as innovative solutions for transportation and safety applications in the framework of the COURSE Program
P-13	R. Erdem ¹ , M. Akarsu ² , E. Burunkaya ² , Ö. Erdem ³ , M. Akalin ⁴ ¹ Textile Technology, Serik Vocational School of Higher Education, Akdeniz University, Antalya, Turkey ² Chemistry, Faculty of Science, Akdeniz University, Antalya, Turkey ³ Chemistry, Institute of Natural and Applied Science, Cukurova University, Adana, Turkey ⁴ Textile Engineering, Technology Faculty, Marmara University, Istanbul, Turkey Morphological analysis of polycaprolactone nanofibers containing nanohydroxyapatite particles
P-14	R. Erdem ¹ , Y. Özyiğit ² ¹ Textile Technology, Serik Vocational School of Higher Education, Akdeniz University, Antalya, Turkey ² Agriculture, Korkuteli Vocational School of Higher Education, Akdeniz University, Antalya, Turkey Investigation of rosemary and origami oil added polyurethane based electrospun nanofibers morphology

P-15	A. Mutlu Kadifeteks Mensucat San. A.S., Istanbul, Turkey The development of easy cleanable upholstery fabrics
P-16	N. Demirsoy ¹ , N. Ucar ² , A. Onen ¹ , N. Kizildag ² ¹ Istanbul Technical University, Department of Chemistry, Istanbul, Turkey ² Istanbul Technical University, Department of Textile Engineering, Istanbul, Turkey Nanocomposite nanofibers of polyacrylonitrile (PAN) and silver nanoparticles (AgNPs) electrospun from dimethylsulfoxide
P-17	O. Eren ¹ , N. Ucar ² , A. Onen ³ , N. Kizildag ² ¹ Istanbul Technical University, Polymer Science and Technology, Istanbul, Turkey ² Istanbul Technical University, Department of Textile Engineering, Istanbul, Turkey ³ Istanbul Technical University, Department of Chemistry, Istanbul, Turkey Composite nanofibers of polyacrylonitrile (PAN) and amino-functionalized carbon nanotubes electrospun from dimethylsulfoxide
P-18	E. Üstüner Kadifeteks Mensucat San. A.S., Istanbul, Turkey The development of flame retardant upholstery fabrics
P-19	E. Batuk, E.C. Sabir University of Cukurova, Department of Textile Engineering, 01330, Adana, Turkey Simulation model of production cost for a selected dyeing-finishing textile mills
P-20	S.M. Yukseloglu ¹ , M. Caliskan ² ¹ Marmara University, Faculty of Technology, Textile Engineering Department, Istanbul, Turkey ² Isiksoy Tekstil, DOSAB, No 20, Osmangazi, Bursa, Turkey Mechanical and thermal properties of wool waste fabric reinforced composites
P-21	R. Simsek ¹ , M. Calisir ² , M. Erol ^{2,3} , A. Kilic ² ¹ Marmara University, Faculty of Technology, Department of Textile Engineering, Istanbul, Turkey ² Istanbul Technical University, TEMAG Labs, Istanbul, Turkey ³ Nevsehir Haci Bektas Veli University, Metallurgical and Materials Engineering, Nevsehir, Turkey Phosphorescent composite nanofibers: effect of polymer type
P-22	Ž. Rukuižienė Kaunas University of Technology, Kaunas, Studentu str.56, Lithuania Influence of reed on filter fabric structure
P-23	S. Canbolat ¹ , N. Merdan ¹ , M. Kılınç ¹ , F. Akin ² ¹ Istanbul Commerce University, Faculty of Engineering and Design, Department of Fashion and Textile, Istanbul, Turkey ² Abbant Izzet Baysal University, Vocational High School, Bolu, Turkey The effect of the ultrasonic energy on dyeing a polyamide material with reactive dyes, including a different chromophore and a reactive group
P-24	O. Ağma ¹ , E. Pampal ^{1,2} , A. Hassanin ^{1,3} , R. Şimşek ¹ , A. Kılıç ¹ , A. Demir ¹ ¹ Temag Labs, Faculty of Textile Technology and Design, Istanbul Technical University, Istanbul, Turkey ² Textile Engineering Department, Bartın University, Bartın, Turkey ³ Textile Engineering Department, Alexandria University, Egypt Effect of SWCNT on PAN based carbon nanofiber
P-25	Y. Polat, A. Küçüksarı, E. Pampal, E. Canbay, S. Yılmaz, A. Kılıç, A. Demir TEMAG Labs, Istanbul Technical University, Istanbul, Turkey Solution blown nanofibers for photocatalytic water filtration applications
P-26	E. H. Peker Tekstil Araştırmaları Derneği Protective clothes from insects
P-27	E. H. Peker ¹ , V. Özyazgan ² ¹ Tekstil Araştırmaları Derneği ² Istanbul Aydın University Engineering Faculty, Department of Textile Engineering, Istanbul, Turkey Obtaining fibers from stinging nettle
P-28	A.M. Abdel-Mohsen ^{1,2} , L. Vojtova ¹ , J. Jancar ^{1,3} ¹ Central European Institute of Technology (CEITEC), Brno University of Technology, Brno, Czech Republic ² National Research Centre-Textile Research Division- El-Buhoth St., 12311 Cairo, Egypt ³ Institute of Materials Chemistry, Brno University of Technology, Czech Republic. Biomedical textiles through multifunctionalization of cotton fabrics using innovative methoxypolyethylene glycol-N-chitosan graft copolymer
P-29	R. M. A. Rahman, R. Hrdina Institute of Organic Chemistry and Technology, Faculty of Chemical Technology, University of Pardubice, Studentská 573, Pardubice CZ-532 10, Czech Republic Biological activity of chitosan extracted from crawfish shell
P-30	E.D. Koçak ¹ , M. Akalın ¹ , N. Merdan ² , B. Y. Şahinbaşkan ³ ¹ Marmara University, Faculty of Technology, Department of Textile Engineering, Goztepe, Istanbul, Turkey ² Istanbul Commerce University, Faculty of Engineering and Design, Department of Textile Engineering, Istanbul, Turkey ³ Marmara University, Faculty of Technical Education, Department of Textile Studies, Goztepe, Istanbul, Turkey Effect of microwave energy on disperse dyeability of polypropylene fibers
P-31	B. Y. Şahinbaşkan Marmara University, Faculty of Technical Education, Department of Textile Studies, Goztepe, Istanbul, Turkey The effect of ultrasonic treatment on dyeing properties of luffa cylindrica fibers

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P-32	<u>S. Canoğlu</u> Marmara University, Department of Textile Engineering, Istanbul, Turkey The comparison of compact (com 4) yarns with conventional ring yarns
P-33	<u>N. D. Gültekin, B. C. Gültekin</u> Marmara University, Department of Textile Education, Istanbul, Turkey The effect of functionalized multi-walled carbon nanotubes (MWCNTs) on properties of polyester fabric dyed with MWCNTs
P-34	<u>S.O. Eruslu¹, A.O. Ağırhan², E. Taskin¹</u> ¹ Namık Kemal University Mechanical Engineering Corlu, Turkey ² Namık Kemal University Textile Engineering Corlu, Turkey Thermal stability and residual effects on carbon/kevlar fabric composites
P-35	<u>U. Dönmez¹, E.C. Sabir²</u> ¹ University of Kahramanmaraş Sütçü İmam, Kahramanmaraş, Turkey ² University of Çukurova, Adana, Turkey A fuzzy logic application on statistical process control of a selected textile mill
P-36	<u>A. Özbek, N. Erdoğan, Y. Doğu</u> University of Sinop, Gerze Vocational School, Gerze, Sinop, Turkey Investigation of comfort properties of fisherman clothing used in turkey with a survey study
P-37	<u>B. Z. Ünal, P. D. Baykal, E. Karazincir, E. Kalkanlı</u> Çukurova University, Department of Textile Engineering, Adana, Turkey An investigation about the effects of selected parameters on the seam performance for denim fabrics
P-38	<u>G. K. Günaydın, R. Erdem</u> Akdeniz University, Textile Technology, Serik Vocational School of Higher Education, Antalya, Turkey The influence of nozzle pressure and yarn count on the evenness and imperfection properties of vortex spun yarn produced by MVS machine
P-39	<u>N. Merdan, S. Canbolat, H. Dayıoğlu</u> Istanbul Commerce University, Faculty of Engineering and Design, Department of Fashion and Textile, Istanbul, Turkey. The effects of enzymatic and ultrasonic energy on pilling properties of cotton fabrics
P-40	<u>S.Canbolat¹, N.Merdan¹, H.Gezer², F. Akin³</u> ¹ Istanbul Commerce University, Faculty of Engineering and Design, Department of Fashion and Textile, Istanbul, Turkey. ² Marmara University, Faculty of Fine Arts, Industrial Product Design, Istanbul, Turkey ³ Abbant İzzet Baysal University, Vocational High School, Bolu, Turkey The ultraviolet protection of cotton fabrics in the interiors
P-41	<u>M. Uzun¹, C. Bach¹, T. Gries¹, S. Jockenhoeve^{1,2}</u> ¹ Institut für Textiltechnik (ITA), RWTH Aachen University, Aachen, Germany ² Department of Applied Medical Engineering, Helmholtz Institute for Biomedical Engineering, RWTH Aachen University, Aachen, Germany Antibacterial activity of vitamin-treated alginate and carboxymethylcellulose wound dressings
P-42	<u>G.Gülşen, F.D. Kadem</u> University of Çukurova, Technical Sciences Vocational School, Adana, Turkey A study about sewability properties of 100% cotton woven fabric with different construction
P-43	<u>E.G. Saraç, F.D. Kadem</u> University of Çukurova, Technical Sciences Vocational School, Adana, Turkey An experimental study about improvement of denim fabric's thermal comfort
P-44	<u>Ö. Ay, G. Çetin</u> Trakya University, Edirne Vocational College Of Technical Science, Department of Textile Technology, Edirne, Turkey Performance comparison of fabrics weaved using Aegean and Egyptian cotton yarns
P-45	<u>L. M. Ozer¹, E. Torgan², C. Aydın², R. Karadağ^{2,3}</u> ¹ Department of Textile Engineering, Faculty of Technology, Marmara University, Kadikoy, Istanbul, Turkey ² Turkish Cultural Foundation, Cultural Heritage Preservation and Natural Dyes Laboratory, Istanbul, Turkey ³ Marmara University, Laboratory of Natural Dyes, Faculty of Fine Arts, Istanbul, Turkey Investigation of the effect of Turkey red oil on colour, fastness properties and HPLC-DAD analysis of silk fabrics dyed with madder
P-46	<u>F. Citoglu¹, H. Temel^{1,2}</u> ¹ Marmara University, Faculty of Technology, Textile Engineering Department, Istanbul, Turkey ² Marmara University, Institute of Pure and Applied Sciences, Istanbul, Turkey Comparison of children's clothing patterns on different systems
P-47	<u>M. Akkaya¹, M. Akalin², Z. Yildiz³</u> ¹ Marmara University, Technical Education Faculty, Department of Textile Education, Istanbul, Turkey ² Marmara University, Faculty of Technology, Department of Textile Engineering, Istanbul, Turkey ³ Istanbul Technical University, Institute of Sciences and Technology, Department of Polymer Science and Technology, Istanbul, Turkey The effects of various bleaching formulations on physical properties of woollen fabrics
P-48	<u>M. Kaya¹, S. İ. Mistik²</u> ¹ Marmara University Faculty of Technical Education Department of Textile Studies, Kadikoy, Istanbul, Turkey ² Marmara University Faculty of Technology Department of Textile Engineering, Kadikoy, Istanbul, Turkey Effect of surface treatments on flexural strength properties of cotton-polyester waste reinforced polymer composites

P-49	F. Çitoğlu ¹ , H. Akkuş ² ¹ Marmara University, Faculty of Technology, Department of Textile Engineering, Istanbul , Turkey ² Bartın University, Institute of Pure and Applied Sciences, Department of Textile Education Ulus/BARTIN, Turkey Importance of body sizes and figure types on clothing fitting
P-50	İ. Tiyek ¹ , R. Gemci ¹ , M. Kiliçkiran ² , U. Dönmez ² , B. Yıldırım ² ¹ University of Kahramanmaraş Sütçü İmam, Faculty of Engineering and Architecture, Department of Textile Engineering, Kahramanmaraş, Turkey ² University of Kahramanmaraş Sütçü İmam, Institute of Natural Sciences, Department of Material Science and Engineering, Kahramanmaraş, Turkey Comparison of strength properties of polypropylene-based spunbond textile surfaces with different values of MFI and weight
P-51	A. Koruyucu ¹ , A.Ö. Ağırhan ¹ , M. Ağırhan ² ¹ Departments of Textile Engineering, Namık Kemal University, Corlu, Turkey ² Textile Technology Dept. Kırklareli University Lüleburgaz Vocational school Luleburgaz, Turkey Investigation of mechanical properties of al2o3/pu coated pes fabric
P-52	R. Halfaoui M'Hamed Bougarra University, Faculty of Engineering Sciences, Department of Engineering Process, Laboratory of Processing and Shaping of Fibrous Materials and Polymers, Boumerdes, Algeria. Modelling and characterization of elastic bands in the therapeutic treatment of venous leg ulcers
P-53	O. Peker Chemical Engineering, Turkey Having heat saving and preventing corrosion on machines by using nano technogical dyes
P-54	S. Er Er GmbH Obermarkt 33, 6410 Telfs \ Tirol, Austria E-Textiles for Spiritual Purposes
P-55	A. F. Khan National Textile University, Pakistan Adsorption behavior of congo red from aqueous solutions on visil fibers and antimicrobial activity assessment of cr dyed visil fabric towards E-coli
P-56	R. Masood, Z. Shahzadi, Azeemullah, T. Hussain, Z.A Raza, N. Ahmad National Textile University, Faisalabad Faculty of Engineering and Technology, Pakistan A natural polysaccharide extracted from brown seaweed
P-57	Z. A. Raza, F. Anwar, A. Rehman, M. T. Hussain, R. Masood Chemistry Research Laboratory, National Textile University, Faisalabad, Pakistan In situ fabrication and impregnation of silver nanoparticles on enzymatic treated cotton fabric
P-58	F. Anwar, Z. A. Raza, A. Rehman, M. T. Hussain and R. Masood Chemistry Research Laboratory, National Textile University, Faisalabad, Pakistan Optimization of chitosan nanoparticles fabrication by using taguchi approach and its application on cotton fabric
P-59	M. M. A. Sayeed ¹ , A. Rawal ² , L. Onal ³ , Y. Karaduman ⁴ ¹ Textile Physics Division, Bangladesh Jute Research Institute, Manik Mia Avenue, Dhaka-1207, Bangladesh ² Department of Textile Technology, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India ³ Department of Textile Engineering, Erciyes University, Kayseri, Turkey ⁴ Department of Textile Technology, Akdagmadeni Vocational High School, Bozok University, Yozgat, Turkey Mechanical properties of surface modified jute fibre/polypropylene nonwoven composites
P-60	M. Q. Khan, M. Sabeeh ul Hassan, S. Hafeez, F. ur Rehman, M. A. Shaikh, M.Y. Zaman National Textile University Karachi, Pakistan Manufacturing of industrial fire retardant gloves using blends of cotton and synthetic fibers
P-61	M. Q. Khan, M. Faizan, S. Hafeez, M. S. Hassan, W. Husain, M. Umer National Textile University Karachi, Pakistan The development of the winter jogging cap
P-62	M. Q. Khan ¹ , M. Umar ² , M. H. Peerzada ³ ¹ National Textile University Karachi, Pakistan ² Student of Master degree in National Textile University, Pakistan ³ Chairman Textile Engg. Department MUET Jamshoro, Pakistan Effect of cost of poor quality at apparel manufacturing industry
P-63	M. Q. Khan, A. Daud, H. M. Zaheer, M. J. Saleem, M. H. Peerzada National Textile University Karachi, Pakistan Development of wearable textile jacket embedded with traffic signals for a traffic warden
P-64	F. Ahmad ¹ , M. Tausif ² , M. H. Malik ¹ , T. Hussain ¹ , A. Afzal ¹ ¹ Faculty of Engineering & Technology, National Textile University Faisalabad, Pakistan. ² Department of Textile Engineering, University of Engineering and Technology, Lahore (Faisalabad Campus), Faisalabad, Pakistan. Effect of process variables on mechanical and comfort properties of cotton hydroentangled nonwoven fabrics