

**6th INTERNATIONAL TECHNICAL TEXTILES CONGRESS PROGRAMME**  
**14 - 16 October 2015, Izmir - Turkey**

<b>14 October 2015 Wednesday</b>				
09.30 - 10.30	Registration			
10.30 - 12.00	<b>Opening Ceremony - HALL A</b> Opening Ceremony and Introduction of TEKSMER Technical Textiles Research & Development Center <b>Prof. Dr. Merih SARIŞIK</b> Head of Department - Dokuz Eylül University Textile Engineering Department and Chair of the Congress <b>Sabri ÜNLÜTÜRK</b> Coordinator Chairman of Aegean Exporters' Associations and Chairman of TEKSMER Technical Textiles Research & Development Center <b>Prof. Dr. Mehmet FÜZÜN</b> Rector - Dokuz Eylül University <b>Aziz KOCAOĞLU</b> Mayor - Izmir Metropolitan Municipality <b>Mustafa TOPRAK</b> Governor of Izmir <b>ITTC 2015 Plaquet Ceremony</b>			
12.00 - 13.30	Joining for Lunch			
13.30 - 15.15	Panel: Technical Textiles Sector in Turkey: Expectations, Opportunities and Future Trends - HALL A			
15.15 - 15.35	Coffee Break & Poster Session (HALL C)			
15.35 - 16.35	Invited Speakers: Application of Technical Textiles - HALL A			
15.35 - 15.55	<b>The electrocarding of nano yarns</b> <u>G. STYLIOS</u> Heriot Watt University, School of Textiles, UK			
15.55 - 16.15	<b>Structural health monitoring for composite structures</b> I.CRISTIAN, S.NAUMA, Z.ASFAR, C.LOGHIN, <u>V. KONCAR*</u> * ENSAIT, France			
16.15 - 16.35	<b>Flame retardant clothing for molten metal applications</b> <u>H. MAKINEN</u> Finnish Institute of Occupational Health Safety of Technologies and Protection, Finland			
16.35 - 17.30	Poster Session - HALL C			
19.30-21.30	Welcome Cocktail - Izmir Wyndham Otel			
<b>15 October 2015 Thursday</b>				
09.00 - 09.30	Registration			
09.30 - 10.50	<b>I. Session: Protective Textiles (HALL A)</b>	<b>II. Session: Functional Textiles (HALL B)</b>	<b>09.30-10.45</b>	<b>COST MP1105 WORKSHOP (HALL D)</b>
09.30 - 09.50	<b>New developments and trends in the field of protective clothing</b> <u>M. BRAEUNING*</u> *Albstadt-Sigmaringen University, Faculty of Engineering, Textile and Clothing Technology and Management, Germany	<b>Possibilities for processing of recycled carbon fibers with the wet-laid technology</b> <u>J. VOLKER*</u> , H.STAB *University Reutlingen, Research Center for Interactive Materials, Germany	09.30 - 09.55	The COST Action MP1105 on flame retardancy of textiles and related materials : A European multidisciplinary knowledge platform P. KIEKENS, <u>B. KANDOLA*</u> , E. VAN DER BURGHT *University of Bolton, Institute for Materials Research and Innovation, UK
09.50 - 10.10	<b>EMI shielding and utility properties of woven fabrics containing conductive fibers</b>	<b>Effect of fiber and yarn parameters on the physical tests of woven automotive seat fabrics</b> <u>D. MECIT*</u> , S. OYLAR, I. TUNÇ, G.HÜRGEZER, H. GARIP, C. ÇÖLKESEN	09.55 - 10.20	<b>Developing test methods for assessing protective</b>

	V. SAFAROVA, <u>J. MILITKY*</u> *Technical University of Liberec, Dept. of Material Engineering, Czech Republic	*MARTUR R&D Center, Turkey		performance of barrier fabrics <u>S. NAZARE*</u> *National Institute of Standards and Technology, U.S.A.
10.10 - 10.30	Military textiles on CO and CO-blends <u>H. EILDERS*</u> *DyStar, Germany	Development of sustainable fiber for technical textiles <u>A.HARLIN*</u> , M.MAATTANEN, S.ASIKAINEN, P.HEIKKILA * VTT Technical Research Centre of Finland, Finland	10.20 - 10.45	Development of water-oil repellent and flame retardant cotton fabrics by treatment with organic-inorganic hybrid materials <u>N. ONAR*</u> , G. METE, A. AKŞİT, B. KUTLU, E. ÇELİK *Pamukkale University, Textile Engineering Department, Turkey
10.30 - 10.50	Testing of clothing for protection against the thermal hazards of an electric arc <u>Y. SAĞLAM*</u> *Kıvanç Group, Turkey	Tensile strength characterization of UD carbon woven preform <u>M. H. PEERZADA*</u> , S. A. ABBASİ, U. SYED *Mehran University of Engineering & Technology, Pakistan		
<b>10.50 - 11.10 Coffee Break &amp; Poster Session (HALL C)</b>				
11.10 - 12.10	III. Session: Medical Textiles (HALL A)	IV. Session: Ecological Aspects & Agricultural Textiles (HALL B)	11.10-12.25	<b>COST MP1105 WORKSHOP (HALL D)</b>
11.10 - 11.30	Design of TENS electrodes using conductive yarn <u>D. ERDEM*</u> , S.YEŞİLPINAR, Y. ŞENOL, D. KARADİBAK T. AKKAN *Dokuz Eylul University, Textile Engineering Department, Turkey	Comparison of different PET dyeing methods with life cycle assessment <u>A. RÜZGAR*</u> , Ş. ALTUN, M. GÜNAY, A. KÖKEN *Bursa Textile and Confection R&D Center (BUTEKOM), Turkey	11.10 - 11.35	Flame retardant back-coated furnishing fabrics: the challenge to replace bromine-containing formulations <u>S. EİVAZİ*</u> , A. R. HORROCKS, B. KANDOLA *University of Bolton, Institute for Materials Research and Innovation, UK
11.30 - 11.50	Forearm test for thermal sensations arised by skin contact of antibacterial sweat pads <u>S. KAPLAN*</u> , S.ASLAN *Suleyman Demirel University, Textile Engineering Department, Turkey	Reducing environmental impact in air jet weaving technology by using a high volume low pressure relay nozzle concept based on a method to exploit energy efficiency as central property in design phase <u>C. GRASSI*</u> , A. SCHRÖTER, Y. GLOY, T. GRIES *3T Textil Technologie Transfer GmbH, c/o Institut für Textiltechnik der RWTH Aachen, Germany	11.35 - 12.00	Halogen-antimony free system for durable - light weight Co and Co/PES constructions <u>L. MARTINKOVA*</u> , J. MAREK *Inotex, Textile Finishing Department , Czech Republic
11.50 - 12.10	Smart glove design for disabled <u>B.SÜLLER ZOR*</u> , A. VURUŞKAN, E.YAZGAN BULGUN *Izmir Ekonomi University, Department of Fashion and Textile Design, Turkey	Plant bag designs from biodegradable polymers for better breeding performance and optimum use of agricultural nutrients S. ASLAN, <u>S. GÜNEY*</u> , S. KAPLAN, A.COŞKAN *Suleyman Demirel University, Textile Engineering Department, Turkey	12.00 - 12.25	Inorganic-organic hybrid coating based on sol-gel process for improving flame retardant properties of cotton fabrics <u>X. WANG*</u> , D. WANG *IMDEA Materials Institute, Spain
<b>12.10 - 13.00 Joining for Lunch</b>				
13.00 - 14.20	V. Session: Technical Design (HALL A)	VI. Session: Filtration Textiles & Geotextiles (HALL B)	13.00-14.15	<b>COST MP1105 WORKSHOP (HALL D)</b>
13.00 - 13.20	Fabrics modelling: 100 years continuous and exciting evolution	Development of synthetic filter media based on submicronic fibers via island-in-the-sea spunbond process with hydro-fracturation	13.00 - 13.25	Multi-functionality of textile meta-

	<b>S. VASSILIADIS*</b> , A. CAY, M. PIERRE-FRANCIS, C. PROVADITIS *Technological Education Institute of Piraeus, Department of Electronics Engineering, Greece	<b>S. RUNGIAH*</b> , P. VROMAN, J.-C. APPERT-COLLIN, D. THOMAS *GEMTEX/LRGP, France		structures <b>M. STAN*</b> *Digitran Grup Srl, Romania
13.20 - 13.40	<b>New washing principle to increase washing performance of wet-spinning with water nozzles</b> <b>M. AKDERE*</b> , S. G. SCHRIEVER, G. SEIDE, T. GRIES *RWTH Aachen University, Institut für Textiltechnik (ITA), Germany	<b>Carbon fibre reinforced polymers used to retrofit infilled reinforced concrete structures</b> <b>H. OZKAYNAK*</b> , E. YÜKSEL *Beykent University, Department of Civil Engineering, Turkey	13.25 - 13.50	<b>Silica precursor for improving flame retardancy of cotton treated with urea/ammonium polyphosphate</b> <b>A. M. GRANCARIĆ*</b> , L. BOTTERI, J. ALONGI *University of Zagreb, Faculty of Textile Technology, Croatia
13.40 - 14.00	<b>Converse piezoelectric effect on PZT membrane</b> <b>I. LOGOTHETIS*</b> , S. VASSILIADIS, D. MATSOUKA, C. VOSSOU, S. POTIRAKIS, K. PREKAS, E. SIORES *Technological Education Institute of Piraeus, Department of Electronics Engineering, Greece	<b>Strategy for the development of synthetic multilayer fibrous media dedicated to engine air filtration with high dust holding capacity</b> <b>W. JABRI*</b> , P. VROMAN, A. PERWUELZ *ENSAIT, France	13.50 - 14.15	<b>Trends in development of flame retardant fibers via phosphorus additives</b> <b>S. GAAN*</b> *EMPA, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
14.00 - 14.20	<b>Application of boric acid on wool and wool/polyester fabrics for strength and flame retardancy functionalization</b> <b>M. BİLGİÇ*</b> , Ş. S. UĞUR, M. DAYIK *Suleyman Demirel University, Textile Engineering Department, Turkey	<b>Comparison of micro- and macro-tensile properties of nonwoven geotextiles as per temperature dependency</b> <b>T. KARADEMİR*</b> *Istanbul Bilgi University, Department of Civil Engineering, Turkey		
<b>14.40 - 16.00</b>	<b>VII. Session: Medical Textiles (HALL A)</b>	<b>VIII. Session: Sportive &amp; Protective Textiles (HALL B)</b>	<b>14.40-15.55</b>	<b>COST MP1105 WORKSHOP (HALL D)</b>
14.40 - 15.00	<b>Smart compressible medical garment with shape memory ability</b> <b>S. BHULLAR*</b> *Bursa Technical University, Turkey	<b>Effect of material parameters on thermo-physiological comfort properties of 3D spacer knitted fabrics</b> <b>V. ARUMUGAM*</b> , R. MISHRA, J. MILITKY *Technical University of Liberec, Department of Materials Engineering, Czech Republic	14.40 - 15.05	<b>Conductive textiles modified by polypyrrole</b> <b>M. OMASTOVA*</b> , M. MÍCUSÍK, K. MOSNACKOVA *Slovak Academy of Sciences, Polymer Institute, Slovakia
15.00 - 15.20	<b>Layer by layer assembly of antibacterial inclusion complexes</b> <b>Ş. S. UĞUR*</b> , A. M. SARIİŞİK, G. C. TÜRKOĞLU, G. ERKAN, E. ERDEN *Suleyman Demirel University, Textile Engineering Department, Turkey	<b>Design of an electronically equipped sailing garment for fall detection</b> <b>S. KARA*</b> , S. YESILPINAR, Y. SENOL, T. AKKAN *Dokuz Eylul University, Textile Engineering Department, Turkey	15.05 - 15.30	<b>Cost effective, efficient and environment friendly durable FR as part of PES HT dyeing</b> <b>J. MAREK*</b> , L. MARTINKOVA *Inotex, Textile Finishing Department, Czech Republic
15.20 - 15.40	<b>Designing bio-inspired superhydrophobic nonwoven mats</b> <b>A. RAWAL*</b> , S. SHARMA, A. SİBAL *Indian Institute of Technology Delhi, Department of Textile Technology, India	<b>Study on the compression behaviour of knitted fabrics-Influence of the elastic yarn</b> <b>J. CRUZ*</b> , C. SANTOS, R. FANGUEIRO, A. FIGUEIREDO *University of Minho, Materials Engineering, Portugal	15.30 - 15.55	<b>Fire retardancy of textiles through surface engineering methods: Recent advances</b> <b>G. MALUCELLI*</b> *Politecnico di Torino, Department of Applied Science
15.40- 16.00	<b>Optimization of light emitting textiles woven with optical fibers for photodynamic therapy</b>	<b>Enhancing UV protection of the tent fabrics by nanostructured polymer coatings</b> <b>A. KORUYUCU*</b> , H.Z. ÖZEK, A. Ö. AĞIRGAN		

	<u>Y. OGUZ*</u> , C. COCHRANE, S. R. MORDON, V. KONCAR *University Lille Nord de France & ENSAIT GEMTEX, France	*Namik Kemal University, Textile Engineering Department, Turkey		and Technology, Italy
16.00 - 17.00	Poster Session - HALL C			
19.30	GALA DINNER - Izmir Wyndham Otel			
<b>16 October 2015 Friday</b>				
09.00 - 09.30	Registration			
09.30 - 10.50	I. Session: Composites (HALL A)	II. Session: Technical Design (HALL B)	09.30-10.45	COST MP1105 WORKSHOP (HALL D)
09.30 - 09.50	3D textile structures for lightweight and low cost production of thermoplastic composite solutions <u>F. BOUSSU*</u> , C. DUFOUR, X. LEGRAND, P. WANG, D. SOULAT, V. KONCAR, K. KALNINS, E. LABANS, P. PINEAU, P. LEFORT, M.W. HENRIKSSON, P. GHYS *ENSAIT, GEMTEX, France	Smart geosynthetics for structural health monitoring using fully distributed Brillouin based fiber optic sensors <u>A. WOSNIOK*</u> , K. KREBBER *BAM Federal Institute for Materials Research and Testing, Department of Non-Destructive Testing, Germany	09.30 - 09.55	A novel fire-off with dmdheu for PES/CO blends <u>R. ATAKAN*</u> , E. ÇELEBİ, G. ÖZCAN, N. SOYDAN, A. S. SARAÇ *Istanbul Technical University, Textile Engineering Department, Turkey
09.50 - 10.10	Electromagnetic shielding performance of flat knitted spacer fabric and its composite using hybrid yarn <u>D. DEMİRAY SOYASLAN*</u> *Mehmet Akif Ersoy University, Department of Polymer Engineering, Turkey	UV curing effect on fixating of capsule based substances onto textile materials M. SARIİŞİK, K. PEKTAŞ, <u>G. ERKAN*</u> , A. ALBAYRAK *Dokuz Eylül University, Textile Engineering Department, Turkey	09.55-10.20	Modified magnesium hydroxide for hybrid organic compounds able to co-polymerize with polycarbonate <u>C. LAROSA*</u> , D. FILIPPO, N. BRAGAZZI *University Of Genoa, Department of Surgical Sciences And Integrated Diagnostics (DISC), Italy
10.10 - 10.30	Performance utility of novel basalt woven hybrid fabrics <u>H. JAMSHAI*</u> , R. MISHRA, J. MILITKY, X. XIONG *Technical University of Liberec, Dept. of Material Engineering, Czech Republic	A textile-based heat flux sensor <u>C. HERTLEER*</u> , G. BEDEK, D. DUPONT *Ghent University, Department of Textiles, Belgium	10.20-10.45	Structural and mechanical properties of medical grade polyurethane electrospun from mixed solvents N. MOAZENI, M. SADRRAJAHANI, <u>M. LATIFI*</u> *Amirkabir University of Technology, Department of Textile Engineering, Iran
10.30 - 10.50	Influence of fibre hybridisation on post-impact behaviour of thermoset composites <u>E. SELVER*</u> , P. POTLURI *Kahramanmaraş Sütçü İmam University, Department of Textile Engineering, Turkey	Determination of conductive composite yarn defects of knitted fabrics via reverse abrasion test <u>S. TEZEL*</u> , Y. KAVUSTURAN, G. A. E. VANDENBOSCH, V. VOLSKİ *Uludağ University, Textile Engineering Department, Turkey		
10.50 - 11.10	Coffee Break & Poster Session (HALL C)			
11.10 - 12.10	III. Session: Functional Textiles (HALL A)	IV. Session: Promotions and Funding for Projects (HALL B)	11.10-12.25	COST MP1105 WORKSHOP (HALL D)
11.10 - 11.30	Development of silver based antibacterial masterbatch for polyester filament yarns <u>O. ÇELEN*</u> , M. E. ÜREYEN, Y. ULCAY * Korteks A.Ş., Turkey - Bursa Technical University, Fiber and Polymer	Promotions and encouragement of the technological research, development and innovation programs and projects oriented for the industry (will be in Turkish and translated into English) Republic of Turkey, Ministry of Science, Industry and Technology, Turkey.	11.10-11.35	Developing flame retardant textile coatings materials with sol-gel method A. AKŞİT, <u>N. ONAR*</u> , B. KUTLU, E. SERGİN,

	Engineering, Turkey			İ.YAKIN *Dokuz Eylül University, Textile Engineering Department, Turkey
11.30 - 11.50	Investigating the surface characteristics of woven automotive upholstery fabrics <u>R. ÖZCAN BERBER*</u> , D. MECİT, F. AKMAN, B. ANAER, C. ÇÖLKESEN, E. TÜRKOĞLU *MARTUR R&D Center, Turkey	Funding programs of the technological and research programs for the industry (will be in Turkish and translated into English) The Scientific and Technological Research Council of Turkey TÜBİTAK, Turkey	11.35-12.00	Evaluation of fire behaviour of flax fabrics treated with expandable graphite based coatings M. ARDANUY, H. VENTURA, J. CLARAMUNT, <u>L. HAURİE*</u> *Universitat Politècnica De Catalunya, Spain
11.50 - 12.10	In-situ coated of Ag, ZnO, Ag/ZnO composite nano particles to the technical fiber and yarn by hydrothermal method <u>D. KÜÇÜK*</u> , O.BALCI, M.TUTAK *Kahramanmaraş Sütçü İmam University, Textile Engineering Department, Turkey	Case Study - R&D Studies Korteks A.Ş., Turkey	12.00-12.25	Identification of Volatile Organic Compounds in Early Stages of Fire from Insulation Products A. A. STEC *, K. DICKENS *University of Central Lancashire, Centre for Fire and Hazards Sciences, UK
12.10 - 13.00	Joining for Lunch			
13.00 - 14.20	V. Session: Protective Textiles (HALL A)			COST MP1105 WORKSHOP (HALL D)
13.00 - 13.20	Heat transport phenomena in advanced insulation materials M. VENKATARAMAN, <u>R. MISHRA*</u> , J. MILITKY *Technical University of Liberec, Faculty of Textile Engineering, Czech Republic		13.30 - 16.00	COST MP 1105 SG Meeting (for SG members only)
13.20 - 13.40	Comparison of methods for evaluating the shielding effectiveness of clothing woven fabrics <u>Ş. SEÇKİN UĞURLU*</u> , A. ÖZKURT, H. ÖZDEMİR *Dokuz Eylül University, Department of Electrical and Electronic Engineering, Turkey			
13.40 - 14.00	Enhancements of a capacitor-based measurement of the tensile properties of textiles <u>S. VASSILIADIS*</u> , E.KYRIAKIS-BİTZAROS, C. VOSSOU, N. STATHOPOULOS, S. CHATZANDROULİS, K. PREKAS, A. MARMARALI, M. BLAGA *Technological Education Iremonstitute of Piraeus, Department of Electronics Engineering, Greece			
14.00 - 15.00	Poster Session (HALL C)			
16.00 - 19.00	Social Programme			

### Poster Presentations (EXECUTIVE MEETING ROOM)

1	A study on the effect of metallic wire/core spun yarn counts on electromagnetic shielding properties of knitted fabric M. UZUN, <u>M. AKDERE*</u> , İ.USTA, M. AKALIN, T. GRIES *Institut Für Textiltechnik (ITA), RWTH Aachen University, Germany
2	An alternative greener processes for textile pre-treatments <u>T. TOPRAK*</u> , P. ANIŞ *Uludag University, Textile Engineering Department, Turkey
3	Analysis of the spinnability of polymers with a high-speed-rheometer under real conditions <u>L. DEBICKI*</u> , G. SEIDE, T. GRIES *RWTH Aachen University, Institut für Textiltechnik, Germany
4	Application of water repellent chemicals in domestic washing machines for knitted cotton sportswear <u>H E. BUDAK*</u> , B. ARSLAN İLKİZ, F. B. UYGUN NERGİS, C.CANDAN



	*ARCELIK Incorporation Central R&D, Cleaning Technologies Department, Turkey
5	<p>Calculation of key structural parameters of woven fabrics pores through image analysis</p> <p><u>S. POTIRAKIS*</u>, S. VASSILIAIDIS, E. MANGIOROU, C. AHMEDIN, A.CAY, P. JACQUIN, C. VOSSOU, D. KOSSYVAKIS</p> <p>*Piraeus University of Applied Sciences (TEI of Piraeus), Department of Electronics Engineering, Greece</p>
6	<p>Ecological surface modification of lignocellulosic fibers obtained from arundo donax L. plant</p> <p>S. İ. MISTIK, S. OVALI, D. KOÇAK, N. MERDAN, <u>B. YILMAZ ŞAHİNBAŞKAN*</u>, M. KAYAR</p> <p>*Marmara University, Turkey</p>
7	<p>Electrochromic fiber for technological textile</p> <p><u>H. ARSLAN*</u>, E. TOPEL, B. KUTLU, A. AKSIT, L. OZYUZER</p> <p>*Izmir Institute of Technology, Turkey</p>
8	<p>Evaluation of the effect of through-the-thickness yarns and their distance on the flexural behavior of 3D composites reinforced by carbon fabric</p> <p><u>B. NAJAFLOO*</u>, A. M. REZADOUST, M.LATIFI</p> <p>*Amirkabir University of Technology, Textile Engineering Department, Textile Excellence &amp; Research Centers, Iran</p>
9	<p>Electromagnetic shielding effectiveness of knitted fabrics with conductive yarns</p> <p><u>S. TEZEL*</u>, Y. KAVUSTURAN, G. A. E. VANDENBOSCH, V. VOLSKI</p> <p>*Uludag University, Textile Engineering Department, Turkey</p>
10	<p>Enhancing the dyeability of cotton fibers with halochromic dyes in order to use in smart medical wounds</p> <p><u>R. ATAV*</u>, K. KARABULUT</p> <p>*Namık Kemal University, Textile Engineering Department, Turkey</p>
11	<p>Investigation of electrical resistance of polypropylene fibers doped carbon nanotube</p> <p><u>R. TURAL*</u>, S. EREN, Y. ULCAI</p> <p>*Uludag University</p>
12	<p>Investigation of mechanical properties of platanus orientalis L. seed fiber/polypropylene nonwoven composites</p> <p>D. KOÇAK, N. MERDAN, <u>B. YILMAZ ŞAHİNBAŞKAN*</u>, S. İ. MISTIK, M. AKALIN</p> <p>*Marmara University, Turkey</p>
13	<p>New research and education center for interactive materials++</p> <p><u>J. VOLKER*</u></p> <p>*Research Center for Interactive Materials, University Reutlingen, Germany</p>
14	<p>Insulated shelter materials for humanitarian use</p> <p><u>I. DE VILDER</u>, P. HEYSE, V. VIRGO, B. GROENENDAAL,</p> <p>*Centexbel, Belgium</p>
15	<p>Novel approaches for yarn spinning by electrospinning system</p> <p>F. GÖKTEPE, <u>B. BUZOL MÜLAYİM*</u></p> <p>*Kırklareli University, Technical Sciences and Vocational School, Turkey</p>
16	<p>Plasma applications and industrial textiles</p> <p><u>A. UYGUN OKSUZ*</u>, L. OKSUZ, G. YURDABAK KARACA, M. KIRISTI, F.BOZDUMAN</p> <p>*Suleyman Demirel University, Department of Chemistry, Turkey</p>
17	<p>Development and characterisation of nonwovenFabric for apparel applications</p> <p><u>M. S CHEEMA*</u>, T. H. SHAH, S. C. ANAND</p> <p>*University of Bolton, UK</p>
18	<p>Screening of flame retardants in textile coatings via high-throughput technologies</p> <p><u>I. DE VILDER*</u>, E.BAUTERS, K. VOLETY, K. VERHEYEN</p> <p>*Centexbel, Belgium</p>
19	<p>Spray coating of nonwoven materials to be used in lamination of protective garments</p> <p><u>S.KARA*</u>, R KNIZEK</p> <p>*Dokuz Eylul University, Textile Engineering Department, Turkey</p>
20	<p>Structural problems in stretch trousers designs and alternative solutions</p> <p><u>A. ÖZCAN*</u></p> <p>*Çanakkale Onsekiz Mart University, Textile Design Department, Turkey</p>
21	<p>Study of resin treatment effects on the mechanical properties of cotton yarns by the experience plan method</p> <p><u>N. LITIM*</u>, A. BAFFOUN, S. BENABDESSALEM</p> <p>*ENIM, France</p>
22	<p>Study on the wet feel sensation of fleece knitted fabrics for incontinence underwear</p> <p><u>J. CRUZ*</u>, C. ANTOS, R.I FANGUEIRO, A.FIGUEIREDO</p> <p>*University Of Minho, Portugal</p>

23	<b>Thermal insulation property of cellulose powder coated textiles</b> <u>G. MANASOĞLU*</u> , M.KANIK *Uludağ University, Textile Engineering Department, TURKEY
24	<b>Thermal characterization and flammability of polypropylene fibres containing sepiolite-APP</b> <u>E. KAYNAK*</u> , M. E. ÜREYEN, A. S. KOPARAL *Anadolu University, Turkey
25	<b>Water repellency properties of cotton fabric treated with stearic acid and silanes modified zinc hydroxide</b> <u>N. ONAR*</u> , G.METER, A. AKŞİT, B.KUTLU, E.ÇELİK *Pamukkale University, Textile Engineering Department, Turkey
26	<b>2BFUNTEX : Transfer of innovations in functional textiles towards industry</b> <u>E. V. D. BURGHT*</u> , P. KIEKENS *Ghent University, Department of Textiles, Belgium
27	<b>Recycling of acrylic fiber waste, RePAN a new approach</b> <u>S. Schriever*</u> , M. Beckers, R. Rensmann, R. Casaretto, G. Seide, T. Gries *Institut für Textiltechnik der RWTH Aachen University