

**8th INTERNATIONAL CONFERENCE
TEXSCI 2013
TEXTILE SCIENCE 2013**



Technical Univerzity of Liberec
Faculty of textile engineering
September 23 - 25 2013, Liberec, Czech Republic

Conference program

PRELIMINARY PROGRAM OF CONFERENCE TEXSCI 2013

<u>Sunday 22.9.</u>	
16:00 – 19:00	REGISTRATION
18:00 – 19:00	WELCOME DRINK

<u>Monday 23.9.</u>		Chairmen
8:00 – 9:00	REGISTRATION	
9:00 – 9:20	OPENING CEREMONY	
9:20 – 9:35	<i>Inaugural address:</i> <i>prof. Rishi Jamdagni: "Globalization in textile area"</i>	J. Militký
9:35 – 10:10	<i>Invited lecture:</i> A. Aneja, R. Pal, J. Militký, K. Kupka, D. Křemenáková, H. Torstensson: TEXTILE THRU THE LOOKING GLASS - A NOVEL PERSPECTIVE	
10:10 – 10:40	COFFEE BREAK	
10:40 – 12:00	<i>Oral presentation</i>	
	C. Alkan, R. Altun Anayurt, S.A. Aksoy, D.K. Dögüscü, A. Arslan POLY(METHYL METHACRYLATE-CO-METHACRYLIC ACID)/N-HEXADECANE MICROCAPSULES TO IMPART THERMAL COMFORT IN TEXTILES	
	P.V. Kadole, R.L. Gotipamul GREEN COMPOSITES	
	D.K. Dögüscü, R.A. Anayurt, A. Arslan, C. Alkan, S. A. Aksoy PREPARATION OF POLY(METHYL METHACRYLATE-CO-ACRYLIC ACID)/N-OCTADECANE MICROCAPSULES WITH HEAT STORAGE PROPERTY	
	S. Das, A. Ghosh OPTIMIZATION OF COTTON MIXING COST: A FUZZY LINEAR PROGRAMMING APPROACH	
12:00 – 13:00	LUNCH	
13:00 – 14:20	<i>Oral presentation</i>	A. Aneja
	R. Korycki, H. Szafranska IMPACT OF MATERIAL PARAMETERS ON TEMPERATURE FIELD WITHIN CLOTHING LAMINATES	
	M. Boguslavska – Baczek, L. Hes ANALYSIS OF CHANGES IN THE THERMAL COMFORT PROPERTIES OF NOMEX FABRICS DUE TO SALT WATER SORPTION	
	J.P. Singh, R. Mishra, B.K. Behera STUDIES ON COMPRESSIBILITY OF WOVEN TERRY FABRICS	

	R. Korycki, I. Krucinska GLOBAL HEAT AND MASS TRANSPORT IN SYSTEM: NEWBORN BABY SKIN – TEXTILE COMPOSITE – SURROUNDING	
14:20 – 14:50	COFFEE BREAK	
14:50 – 16:10	<i>Oral presentation</i>	S. Ibrahim
	R.P. Jamadagni, S. Bhattacharyya, N. Kumar CHARACTERISATION OF WATERVAPOUR TRANSMISSION BEHAVIOUR OF WOVEN FABRICS	
	V. Baheti, J. Militký, M. Maršálková INFLUENCE OF JUTE NANOFIBERS ON SOFTENING TEMPERATURE OF POLY LACTIC ACID COMPOSITE FILMS	
	P. Reiners, Y. Kyosev ABOUT THE THERMAL CONDUCTIVITY OF MULTI LAYER CLOTHING	
15:50 – 17:00	<i>Poster presentation (1 - 18)</i>	
17:00 – 19:00	<i>“Open University”</i>	

<u>Tuesday 24.9.</u>		Chairmen
8:30 – 9:00	REGISTRATION	
9:00 – 10:20	<i>Oral presentation</i>	B. Neckář
	S. M. Mezarciöz, M. Bebekli, R.T. Ogulata PREDICTION OF THE AIR PERMEABILITY OF KNITTED FABRICS: COMPARISON OF THE IMAGE ANALYSIS SYSTEM AND THEORETICAL MODEL	
	J. Militký, G. Zhu, D. Křemenáková THERMAL CONDUCTIVITY OF TEXTILES CONTAINING ADVANCED FIBRES	
	S.A. Aksoy, C. Alkan, M.S. Tözüm, S.A. Demirbag PRODUCTION OF HEAT STORING AND THERMOREGULATING COTTON FABRICS CONTAINING POLY (METHYL METHACRYLATE-CO-ACRYLIC ACID)/N-OCTADECANE MICROCAPSULES	
	K. Aksoy, C. Alkan PREPARATION OF MICROENCAPSULATED PCMS IN CHITOSAN AND SODIUM ALGINATE BY COMPLEX COACERVATION	
10:20 – 10:50	COFFEE BREAK	
10:50 – 12:10	<i>Oral presentation</i>	R. Mishra
	M. Matusiak MEASUREMENT OF COLOUR OF COTTON RAW MATERIALS BY MEANS OF DIGIEYE	
	M. Venkantaraman, H. Riaz, R. Mishra, J. Wiener, J. MILITKÝ, L. Hes ANALYSIS OF THERMAL PROPERTIES OF AEROGEL TREATED NON-WOVEN FABRICS	

	R.P. Jamadagni, S. Bhattacharyya RESPONSE OF THERMOPHYSIOLOGICAL COMFORT PROPERTIES OF POLYESTER – MODAL BLENDED FABRIC TO CHEMICAL FINISHING
	S. M. Mezarciöz, M. Toksöz SUSTAINABILITY CONCEPT AND ITS APPLICATIONS IN TEXTILE SECTOR (INVESTIGATION IN TERMS OF TEXTILE FIBERS)
12:10 – 13:10	LUNCH
13:10 – 16:00	CONFERENCE TRIP
16:00 – 16:30	COFFEE BREAK
16:30 – 17:50	<i>Poster presentation (19 - 36)</i>
17:50 - 18:00	A. Aneja: Emerging trends in textiles
18:00 – 20:00	BANQUET

<u>Wednesday 25.9.</u>		Chairmen
8:20 – 8:40	REGISTRATION	
8:40 - 10:00	<i>Oral presentation</i>	D. Lukáš
	R.P. Jamadagni, K.N. Chatterjee STUDY OF NEEDLE-PUNCHED NONWOVEN POLYESTER FILTER FABRICS FOR DUST CONTROL	
	J. Huang, D. Křemenáková, J. Militký, M. Venkantaraman, Y. Wang, G. Zhu MECHANICAL PROPERTIES OF PMMA PLASTIC OPTICAL FIBERS BY NANOINDENTATION	
	S. Jevšnik, Z. Stjepanovic, A. Rudolf, D. Grujic, T. Pilar ASSESSING THE FIT OF WOMEN GARMENT TO THE BODY	
	E. Kayahan, K. Aksoy, E. Önem PREPARATION OF ANTIBACTERIAL MICROCAPSULES CONTAINING CLOVE OIL FOR TEXTILE APPLICATIONS	
10:00 – 10:30	COFFEE BREAK	
10:30 – 11:50	<i>Oral presentation</i>	V. Bajzík
	H. Eldeeb, M. Mohy, T. Elbagoury, K. Aboseda, E. Shady, M. Eldessouki AN AUTOMATED FABRIC FAULT DETECTION AND CLASSIFICATION SYSTEM BASED ON COMPUTER VISION AND SOFT COMPUTING	
	R. Abbasi, J. Militký JOULE HEATING IN POLYPYRROLE COATED GLASS FABRIC	
	N. Fadel, A. Aloufi, M. El Messiry, J. Militký ATMOSPHERIC PLASMA TREATMENT STIMULING WETTABILITY OF COMPACT AND RING SPUN YARNS	

	N. Korkmaz, S. Demirbag, M.S. Tözüm, S. Alay Aksoy, Ç. Sivri FABRICATION OF CROSS-LINKED GELATIN ELECTROSPUN NANOFIBERS CONTAINING ROSEMARY OIL FOR ANTIBACTERIAL APPLICATION	
11:50 – 12:50	LUNCH	
13:00 – 14:20	<i>Oral presentation</i>	J. Militký
	Ç. Sivri, K. Aksoy, S. Demirbag PRODUCTION OF BICOMPONENT GELATIN/OLIVE OIL NANOFIBERS FOR BIOMEDICAL APPLICATIONS USING COAXIAL SPINNERET	
	P. Stuchlík REINFORCING OF NANOFIBER MATERIALS	
	D. Křemenáková, J. Militký, B. Meryová, V. Lédl EVALUATION OF SIDE EMITTING OPTICAL FIBER ILLUMINATION INTENSITY	
14:20 – 14:45	CONFERENCE CLOSING	

POSTER PRESENTATION

- 1 V. BAHETI, V.K. KOTHARI
SIMPLE TECHNIQUE TO INVESTIGATE SOUND BARRIER PROPERTIES OF NONWOVENS
- 2 M. ELDESSOUKI, S. IBRAHIM, J. MILITKÝ
A ROBUST IMAGE PROCESSING ALGORITHM FOR MEASURING YARN DIAMETER
- 3 H. JAMSHAD, M. VENKATARAMAN
EFFECT OF TEMPERATURE ON MECHANICAL PROPERTIES OF POLYMER FIBERS
- 4 A. HAVELKA, L. NAGY, Z. KŮS
MONITORING PHYSIOLOGICAL COMFORT OF CLOTHING IN LABORATORY CONDITIONS
- 5 J. HUANG, D. KREMENÁKOVÁ, J. MILITKÝ, M. VENKATARAMAN, Y. WANG
INTERPHASE PROPERTIES IN PLASTIC OPTICAL FIBER BY NANOINDENTATION
- 6 S. IBRAHIM, M.D ELDESSOUKI, J. MILITKÝ, D. KREMENÁKOVÁ, E. MOUCKOVÁ
COMPARATIVE STUDY OF YARN DIAMETER MEASURED BY MEANS OF A HIGH SPEED CAMERA, USTER EVENNESS TESTER, CTT, AND QQM
- 7 R.P. JAMADAGNI, K.N. CHATTERJEE, N. BANSAL
APPLICATION OF CARBON NANO TUBES (CNT) IN TEXTILES
- 8 A. MAZARI, A. HAVELKA
IMPACT OF NEEDLE SIZE ON SEWING NEEDLE TEMPERATURE

- 9 R. MISHRA, B.K. BEHERA, J. MILITKÝ
MODELING AND SIMULATION OF 3-D WOVEN FABRICS DRAPABILITY FOR COMPOSITE APPLICATIONS
- 10 R. MISHRA, B.K. BEHERA, J. MILITKÝ
MODELLING AND SIMULATION OF 3D WOVEN FABRICS IMPACT LOADING PROPERTIES IN COMPOSITE APPLICATIONS
- 11 Ö. ISILDAK, C. ALKAN, K. AKSOY
A TEMPERATURE-REGULATING NANOFIBERS MADE OF A PEG-BASED POLYURETHAN
- 12 M. VENKATARAMAN, J. WIENER, R. MISHRA, J. MILITKÝ, P. EXNAR
A STUDY ON PENETRATION OF POLYMERS IN AEROGEL GRANULAR PARTICLES
- 13 M. VENKATARAMAN, R. MISHRA, J HUANG, Y. WANG, Z. GUOCHENG, J. MILITKÝ
EVALUATION OF THERMAL PROPERTIES OF HIGH PERFORMANCE NONWOVEN PADDING FABRIC
- 14 M. NEJEDLÁ
PROPORTIONALITY OF THE HUMAN BODY
- 15 J. SALACOVÁ
GEOMETRICAL MODEL FOR TWILL REINFORCEMENT INTO GLASS/POLYSILOXANE WOVEN COMPOSITES
- 16 P. TĚŠINOVÁ, H. KABEŠOVÁ
WATER-VAPOUR PERMEABILITY OF SOFTSHELL MATERIALS AND DEPENDENCY ON MATERIAL PROPERTIES IN DRY STATE
- 17 P. TUMAJER, E. MOUCKOVÁ, P. URSÍNY, M. BÍLEK
BEHAVIOUR OF YARNS DURING CYCLICAL LOADING
- 18 M. VYŠANSKÁ, O. SAUNOVA
EVALUATION OF HAIRINESS OF THE LINEAR TEXTILE STRUCTURES BY THEIR IMAGE ADJUSTMENT
- 19 G. ZHU, D. KREMENÁKOVÁ, Y. WANG, J. HUANG, M. VENKATARAMAN, J. MILITKÝ
EVALUATION OF THERMAL CONDUCTIVITY OF HOLLOW FIBER PADDING
- 20 V. GLOMBÍKOVÁ, P. KOMÁRKOVÁ
EFFECT OF SUBLIMATION PRINTING ON UNDERWEAR PERFORMANCE
- 21 T. HEINISCH, V. BAJZÍK, L. HES
THE DRYING SPEED OF OUTDOOR TEXTILES
- 22 A.E. MANGAT
VERTICALIZATION OF FASHION BUSINESS

- 23 B. MUSILOVÁ
AN EXPERIMENTAL EVALUATION OF MEN'S SHIRT PATTERN DRAFTING METHODS
- 24 D. VEJRYCH, L. ŠEVCÍK
TECHNOLOGY FOR MANUFACTURING FOLDING OF TEXTILE
- 25 Y. WANG, J. WIENER, R. MISHRA, G. ZHU, M. VENKATARAMAN, J. HUANG, J. MILITKÝ
STUDY ON OZONE TREATMENT OF ARAMID FABRICS
- 26 V. BAHETI, J. MILITKÝ, M. MARŠÁLKOVÁ
EFFECT OF JUTE FIBER SIZE ON ELASTIC MODULUS OF POLY LACTIC ACID COMPOSITE FILMS: INVESTIGATION FROM NANOINDENTATION MEASUREMENTS
- 27 H. BREZINOVÁ, M. BRAVERMANOVÁ
RESEARCH OF ARCHAEOLOGICAL AND HISTORICAL TEXTILES
- 28 V. BAHETI, R. MISHRA, J. MILITKÝ, B.K. BEHERA
MECHANICAL PROPERTIES OF GLASS FABRIC/EPOXY COMPOSITES AFTER FILLING WET MILLED FLY ASH NANOPARTICLES BETWEEN STACKED FABRIC LAYERS
- 29 J. GRÉGR, E. KOŠTÁKOVÁ, M. KOŠKOVÁ
INCORPORATION OF HEAVY METAL SALTS INTO POLYMER NANOFIBERS
- 30 J. GRÉGR, M. MARŠÁLKOVÁ, V. ŠAFÁROVÁ, D. HARTIG
NANOPARTICLES MADE OF EXFOLIATED CARBON FIBERS
- 31 E. KOŠTÁKOVÁ, J. LANKA, J. GRÉGR
BUCKY PAPER PRODUCTION AND ANALYSIS
- 32 Y. WANG, J. WIENER, G. ZHU, J. HUANG, M. VENKATARAMAN
APPARATUS ASSEMBLING FOR CONTINUAL FILTRATION STUDY OF NANOFIBROUS MEMBRANE
- 33 D. ČIŽMÁROVÁ
INFLUENCE OF LOW-TEMPERATURE PLASMA BY ATMOSPHERIC PRESSURE IN THE DYEING PROCESS OF WOOL TEXTILE MATERIALS
- 34 S. JEVŠNIK, Z. STJEPANOVIC, A. RUDOLF, H. ERYÜRÜK, F. KALAOGLU, T. RIJAVEC, P. KRANER ZRIM
THE CHARACTERISTICS OF WELDED SEAMS THE HIGH QUALITY MATERIALS
- 35 J. LEGERSKÁ, I. KOPAL
THERMAL PROPERTIES OF LAMINATED MATERIALS

36 M. ERNESTOVÁ, M. SYROVÁTKOVÁ

THE SIMULATION OF FIBER WEAR ON A REVOLVING PELLEY