

October 21-22,

2021

Online

TEX TEH X

INTERNATIONAL CONFERENCE
ON TEXTILES AND CONNECTED R&D DOMAINS

FINAL PROGRAM

FIRST DAY - 21.10.2021

JOIN WEBEX MEETING

<https://incdtp.my.webex.com/incdtp.my/j.php?MTID=m728bbfde8f11d965e9a58e5d732fa671>

Meeting number (access code): 2364 311 6325

Meeting password: M9s8Fjfc9gr (69783532 from phones and video systems)

Eastern European
Summer Time
(EEST)
09:00 – 09:20

INTRODUCTION & OPEN CEREMONY

Chairperson: PhD. Eng. Carmen Ghituleasa, Special invited guest

KEYNOTE SESSION

Chairperson: PhD. Eng. Carmen Ghituleasa

Electrospinning of nanofiber materials: applications from sensors over composites to filtration

Prof. K. De Clerck, Ghent University (UGENT), Belgium

Closed loop post-consumer cotton textile recycling

Dr. J. Oelerich, Associate Professor Sustainable Textiles, Saxion UAS, Netherlands

Design of garments using adaptable digital body models

A. Rudolf, Z. Stjepanović, A. Cupar, University of Maribor, Slovenia

Novel approaches for sustainable dyeing of textiles

A. Haji, Yazd University, Iran

9:20-9:40

9:40-10:00

10:00-10:20

10:20-10:40

PLENARY SESSIONS

Chairperson : PhD. Eng. Alexandra Ene

Development and characterisation of stitch-based sensors

S.A. Odhiambo, S. Vasile, J. Sarrazyn, I. Rottiers, A. De Raeve

Development of multilayer textile structures for filtering applications – A new surgical mask approach

R.V. Costa, C. Silva, T. Sousa, J. Bessa, F. Cunha, J. Belino, R. Fangueiro

10:40-10:50

10:50-11:00

11:00-11:10	<i>Development of multifunctional yarn from the functionalization of organic raw cotton fibers with zinc nanoparticles</i> S. Ferreira, P. Silva, J., Bessa, F. Cunha, C. Castro, A. Aguilar, R. Fangueiro
11:10-11:20	<i>A sustainability approach: integration of a microencapsulated phase change material to a recycled PES nonwoven fabric to develop a heat storing recycled material</i> E. G. Saraç, E. Öner, M. V. Kahraman
11:20-11:30	<i>Recycled textiles: evolving design practices for changing the circular future of fashion sector</i> E. D'Itria, C. Colombi
11:30-11:45	<i>Water repellent breathable PET/wool fabric via plasma polymerisation technology</i> A. Haji, M.K. Mehrizi, M.A. Tavanai, M. Gohari
11:45-11:55	<i>Development of ecological denim bleaching methods</i> İ. İvedi, K. Yağcı, E. Tağaç
11:55-12:05	<i>A new approach for classification of different woven fabric patterns and thread densities with convolutional neural networks</i> E. Gültekin, H.İ. Çelik, H.K. Kaynak
12:05-12:15	<i>Research regarding new sustainable methods of garment pattern drafting</i> I.E. Marin
12:15-12:25	<i>Selective deposition of nanofibers net on textile structures</i> D. Minguez, E. Bou-Belda, I. Montava, P. Díaz-García, M. Bonet-Aracil, J. Gisbert-Payá
12:25-12:35	<i>Effects of aramid sewing yarn type and fabric compositions on some seam properties of high performance fire retardant fabrics</i> S. Kara
12:35-13:30	Lunch break

PLENARY SESSIONS

Chair Person: PhD. Eng. Alina Popescu

13:30-13:40	<i>Electrospinning of antibacterial polyurethane/ZnO nanofibers</i> İ.Y. Mol, F.C. Çallioğlu
13:40-13:50	<i>Aqueous solutions of chitosan: viscometric and flocculation properties</i> C.-E. Brunchi, L. Ghimici
13:50-14:00	<i>A research on the breathability property of baby diaper backsheet</i> H.K. Kaynak, M. Alsayed
14:00-14:15	<i>Encapsulation lavender oil by spray drying for sportswear</i> G. Erkan, G.C. Türkoğlu, S.Y. Karavana, A.M. Sarişik, B. Ütebay, A.Ç. Bakadur, A. Popescu
14:15-14:25	<i>Growing materials: exploring new design practices towards a sustainable fashion sector</i> E. D'Itria, P. Bolzan, F. Papile
14:25-14:35	<i>Two-step crosslinking of PVP/gel nanofibers</i> H.K. Güler, F.C. Çallioğlu
14:35-14:45	<i>Electrospinning of St. John's wort oil loaded microcapsules based PVA nanofibers</i> H.K. Güler, F.C. Çallioğlu, İ.Y. Mol, M. Geysoglu
14:45-14:55	<i>Solvent optimization of electrospun poly(acrylic acid) nanofibers</i> M. Geysoglu, F.C. Çallioğlu
14:55-15:05	<i>Carbon fibre alignment for reinforced composites using embroidery technology</i> J. Domenech-Pastor, P. Diaz-Garcia, D. Garcia

15:05-15:15

Coffee Break

PLENARY SESSIONS

Chairperson: PhD. Eng. Sabina Olaru

15:15-15:25

Emulsion electrospinning of polyvinylpyrrolidone (PVP)/paracetamol nanofibers
M. Geysoglu, H.K. Güler, F.C. Çallioğlu, İ.Y. Mol

15:25-15:35

Paracetamol Drug Loaded Microcapsule Based Nanofiber Production
İ.Y. Mol, F.C. Çallioğlu, H.K. Güler, M. Geysoglu

15:35-15:40

Performance properties of knitted fabrics produced from r-PET and cotton/r-PET blended vortex and ring yarns
A. Oruç, Y. Arıkan, E. İlanbey, K. Özşahin

15:40-15:55

Optimization of some weaving machine parts design. Theoretical approach
A. Mostafa, W. Hashima, M. Hassan, S. El-Gholmy, A. Eloufy

15:55-16:05

Development of textile-rubber composite materials using recycled rubber and textiles with applications in industry
F.St.C. Mustata, A. Curteza

16:05-16:15

The effect of plasma treatment on the printability of polyester fabric using cochineal natural dye
M. Khajeh Mehrizi, A. Haji, Z. Shahi, M. Golshan

16:15-16:25

A study on enhancing the flame retardancy of polypropylene yarn with boron compounds
E. Eskiyapar, Hatice K. Kaynak, Halil İ. Çelik, E. Sarıoğlu

16:25-16:35

Behaviour assessment of tridimensional multilayer fibrous structures as respiratory protection substrates
C. Silva, T. Sousa, J. Bessa, F. Cunha, M. Costa, A. Roças, R. Fangueiro

SECOND DAY - 22.10.2021

JOIN WEBEX MEETING

<https://incdtp.my.webex.com/incdtp.my/j.php?MTID=mc2e48e51c9002c592c707353d45c5afa>

Meeting number (access code): 2368 959 3382

Meeting password: 7kgChp9kuW6 (75424795 from phones and video systems)

PLENARY SESSIONS

Chairperson: PhD. Eng. Emilia Visileanu

Eastern European
Summer Time
(EEST)

9:00-9:20

Magurele Science Park Association - we develop community and create connections
Paula Badinu, MSP Romania

9:20-9:35

Degradation of nonwoven fabrics suitable for wet wipes buried in soil
V. Sülar, B. Keçeci

9:35-9:45

Theoretical considerations regarding virtual methods to obtain the garment prototype (2D/3D and 3D/2D)
M. Avadanei, A. Talpa, A. Curteza, D. Viziteu, I. Dulgheriu

9:40-9:45

Active principles applied on biomaterials for the curative therapy of inflammatory skin diseases - a review
A. Țigău, G. Vasile, L. Chirilă, A. Popescu, S. Olaru

9:45-9:55

A case study for water footprint assessment of a denim product
V. Sülar, B. Soy, K. Yağci

9:55-10:00	<i>Overview of the knitted materials with vibrations damping capacity</i> C. Grosu, M. Blaga
10:00-10:10	<i>Analysis of the physico-mechanical properties of different woven structures with potential applications in the healthcare and hygiene sector</i> C.E. Stroe, T. Sârbu
10:10-10:20	<i>An integrated solution for the online marketing of custom-made garments that incorporates a virtual fitting room</i> M. Avadanei, A. Matasel, I. Ionescu, E. Loghin, D. Ionesi
10:20-10:25	<i>Characterization of airborne particles in mechanical textile yarns processing</i> E. Visileanu, C. Mihai, A. Ene, C. Grosu, R. Scarlat, A. Vladu
10:25-10:35	<i>Virtual 3D kinematic human model prototype</i> D.-R. Viziteu, A. Curteza, M. Avadanei
10:35-10:45	<i>Analysis of the mechanical properties of some high-tech yarns with different functions</i> T. Sârbu, C.E. Stroe
10:45-10:50	<i>The gain in shielding effectiveness achieved by superposition of stainless steel plasma coated woven fabrics</i> I.R. Radulescu, L. Surdu, E. Visileanu, I. Sandulache, C. Morari, B. Mitu
10:50-10:55	<i>Correlative and covariance analysis of the electroconductive fabrics</i> R.M. Aileni, L. Chiriac
10:55-11:00	<i>Integration of magnetic materials with actuator role on textile supports</i> C. Grosu, R.M. Aileni, S. Olaru
11:00-11:05	<i>Role of the e-learning courses for capacity building in the field of advanced materials development</i> R.M. Aileni, L. Chiriac
11:05-11:10	<i>Accessibility and usability of the learning tools to accelerate innovation in the field of smart materials development</i> R.M. Aileni, L. Chiriac
11:10--11:20	<i>Development of jacket patterns for teenagers using Optitex flattening module</i> G. Popescu, S. Olaru, C. Grosu, I. Badea
11:20-11:25	<i>Training of textile creatives in the field of e-textiles design software</i> I.R. Radulescu, R.M. Aileni, A. Salistean, S. Olaru, C. Grosu, R. Scarlat, I. Sandulache
11:25-11:30	<i>Review on different types of clay and their use as antimicrobial agents for textiles treatment</i> M.C. Lite, E.C. Tănăsescu, L.O. Secăreanu, I.M. Săndulache, O. Iordache, E. Perdum
11:30-11:35	<i>Antimicrobial properties of rabbit collagen glue-chitosan biomaterial loaded with cymbopogon flexuosus essential oil</i> M. Râpă, M.D. Berechet, C. Gaidău, R.R. Constantinescu, A. Moșuțiu
11:35-11:45	<i>Interaction of clothing in thermoregulation in the case of preterm infants</i> V. Danila, A. Curteza, S. Balan
11:45-11:55	<i>Clothes development based on methods of handling of premature babies in the intensive care unit</i> V. Danila, A. Curteza, S. Balan
11:55-12:00	<i>Floating tank for transporting oil and hydrocarbons following a maritime disaster</i> M. Jomir, D. Zamfirache, A. Ene, C. Mihai
12:00-12:05	<i>Predictive mathematical model for absorbant substrate achievement, through electrospinning process</i> C. Mihai, A.G. Ene, R.-G. Hertzog, D. Popescu, A.F. Vladu