

3rd INTERNATIONAL CONGRESS OF INNOVATIVE Textiles



PLENARY TALKS



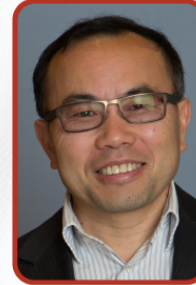
Professor Ray H. Baughman
The University of Texas at Dallas, Nanotech Institute, USA
Powerful, Large Stroke Electrochemical Carbon Nanotube Yarn Artificial Muscles



Professor Paul Kiekens
Ghent University, Department of Materials, Textiles and Chemical Engineering, Belgium
Textiles and Clothing: Challenges for an Increasingly Environmentally Demanding World



Professor Long Lin
University of Leeds, Department of Colour Science, UK
Recent Advances in Sustainable Dyeing Technologies



Professor Kungai Wang
Deakin University, Institute for Frontier Materials, Australia
Fibre Materials Research that Makes a Difference

3rd International Congress of Innovative Textiles, ICONTEX2022 (18 - 19 May 2022) PRELIMINARY PROGRAMME

18 May 2022, Wednesday

OPENING CEREMONY			
09:30-10:30	Prof. Dr. Fatma Göktepe (Head of Organizing Committee) Prof. Dr. Lokman Hakan Tecer (Dean of Çorlu Engineering Faculty) Prof. Dr. Mümin Şahin (Rector) Representatives of Turkish Textile Industry (to be confirmed)		
10:30-10:45	Break		
10:45-11:30	PLENARY TALK: Prof. Dr. Ray H. BAUGHMAN, University of Texas at Dallas, U.S.A. "Powerful, Large Stroke Electrochemical Carbon Nanotube Yarn Artificial Muscles"		
11:30-12:30	Functional and Smart Textiles HALL A Chairman: Prof. Dr. İsmail USTA	Yarn Spinning Technologies HALL B Chairman: Prof. Dr. Bülent ÖZİPEK	Textile Pretreatment, Coloration and Finishing Technologies/Textile Chemistry HALL C Chairman: Prof. Dr. E.Perrin AKÇAKOCA KUMBASAR
11:30-11:45	70 - Wound Healing Property of the Hydroalcoholic Extract of Teucrium Polium and Double Emulsion Microencapsulation / Salma Jama - Fadhel Jaafar- Jalel Dahas- Neji Ladhari	62 - Effect of Different Filament Fineness and Disc Combination on DTY Polyester Yarn Tensile Properties / Gülbin Fidan - Yasemin Korkmaz- Halil İbrahim Çelik	158 - Vat Dyeing Process of Inherent Flame Retardant Fabrics / Martina Glogar - Tanja Pusic- Veronika Lovreskov- Tea Kaurin
11:45-12:00	172 - Enhancing Filter Efficiency of the Cabin Air Filter by Using Solution Blown Spinning / Eytül Büşra Tapanyıldız- Koray Pektaş - Mehmet Özdemir- Omur Balci	125 - Investigation of the Effect of Different Wood Pulp Contents of Eco-cell® Yarns / Kubilay Özden - Ebru Çelikten- Tulin Kaya Nacarkahya	81 - Innovative Research and Applications in Yarn Winding/Dyeing / Barış Mançar - Burak Çalhan- Güngör Durur- Melike Küçüker Çalhan
12:00-12:15	152 - The Comparison of Biological and Chemical Reducing Agents on the Morphological and Electrical Properties of Silver Coated Textiles / Seyma Kanara - Suat Çetiner	110 - Investigation of Yarn and Fabric Performance Properties of Upholstery Fabrics Developed by Using Environmentally Friendly Sustainable Hemp Fiber at Different Ratios / Neslihan Okyay	18 - Process Improvement and Efficiency Study with Smed (Single Minute Exchange of Dies) Method in Die Change of Screen Printing Machines / Elçin Emekdar - Hatice Açıkgöz- İrfan- Umur Kuvanc- Şahin- Senem Kurşun Bahadır- Burak Tuluk- Adnan Nail Şimşek
12:15-12:30	129 - Carrier Systems Containing Coconut Oil and Rosehip Oil Microcapsules for the Treatment of Cradle Caps / Eda Tunç - Merih Sarıtaş- Sinem Yaprak Karavana- Gizem Ceylan Türkoğlu	59 - Innovative Solutions to the Stickiness Problem in Cotton Spinning / Gökhan Tandoğan - Kıymet Kübra Denge	150 - The Effects of Atmospheric Plasma Treatment on the Sustainability and Surface Properties of Fibers / Ebru Bozacı - Esen Özdoğan- Tulay Gülümser- Aslı Demir
12:30-13:30	LUNCH BREAK		
13:30-14:15	PLENARY TALK: Prof. Dr. Long LIN, Leeds University, U.K. "Recent Advances in Sustainable Dyeing Technologies"		
14:15-15:15	Technical Textiles Chairman: Prof. Dr. Özer GÖKTEPE	Weaving, Knitting and Nonwoven Technologies Chairman: Prof. Dr. H. Ziya ÖZEK	Nanotechnology Applications in Textiles Chairman: Prof. Dr. Ali Akbar GHAREHAGHAJI (Iran)
14:15-14:30	112 - Investigation of Triboelectricity on Textile Structures Through a Teg which Combines Sliding and Vertical Mode / Aristeidis Repoulas - Mustafa Ertekin- Sotiria F Galata- Savvas Vassiliadis- Arzu Marmaralı	73 - Specific Mechanical Properties of 3D Warp Interlock Fabrics for Composite Materials / Francois Boussu	22 - Emulsion Electrospinning of PVA Nanofibers Containing Hypericum Perforatum Oil / Nursema Pala- Nebahat Aral Yılmaz- Banu Nergis
14:30-14:45	121 - Hybrid Fibrous Material for the Development of a Textile Heart Valve / Maleke Zidi - Foued Khefffi - Yosri Khalis- Abdel Tazibt- Frédéric Heim- Slah Msahli	53 - Determination of The Suitable Splice Method with T-Test to Yarns Produced in Different Numbers / Seval Uyanık - Sabih Ovalı	11 - Electrospinning of Thymoquinone Loaded Microcapsule Based Nanofibers / Funda Cengiz Çallıoğlu- Hülya Kesici Güler
14:45-15:00	60 - Development Studies of High Performance Socks / Yasemin Alver	131 - Investigation of Fluid Distribution and Rewet Performance with the use of Different Acquisition Layers and Top Sheets in Sanitary Napkins / Gizem Culla- Esin Sarıoğlu - Ebru Çelikten - Tulin Kaya Nacarkahya	34 - Thermally Improved rPET-Based Composite Nanofibers / Özlem İpek Kalaçoğlu Altan - Burçak Karagüzel Kayaoğlu

15:00-15:15	63 - Development of Curtain Fabric that Provides Sound Absorption Using Different Fabric Constructions / Gizem Aydemir	109 - Performance Properties of Knitted Fabrics Produced from Environmentally Friendly Hemp/Cotton Blends / Hatice Kübra Kaynak-Hatice Özel- Ahmet Oruç- Emel Çimçik- Kübra Orşahin	49 - Applications of Nanofibers - Filters for Masks & Cell Culture Scaffolds for Vaccine Development / Yoshihiro Yamashita- Yuya Hashizume
BREAK			
15:30-16:30	Technical Textiles Chairman: Prof. Dr. Levent ÖNAL	Textile Testing and Quality Control Chairman: Prof. Dr. Sachiko SUKIGARA (Japan)	Ecology and Sustainability Chairman: Prof. Dr. Seshadri RAMKUMAR (U.S.A.)
15:30-15:45	95 - Development of Conductive Textile based Antenna for Microsatellite / Vijay Laxmi Seervi, Mytilineos, S. Behera, B. K. Vassiliadis, S. G.	132 - Prediction of Absorbency and Fastness Properties from Physical Properties of Woven Terry Fabrics / Halil Ibrahim Çelik- Işıl Yüksel Mesuroğlu- İlyas Mukannasgil- Esin Saroğlu	4 - An Upcycling Design Model for Pre-Consumer Denim Waste / Cevza Candan- Banu Nergis- Nazlıcan Çikot- Beril Ayık- Meltem Çöl
15:45-16:00	69 - The Development of Falling Detection Sensor as Signal using Brush Triboelectric Charging / Tomohiro Komatsu	6 - Evaluation of Textile Damage after Disinfection Treatment with UV-C Adapted Tumble Dryer / Ayşin Acır- Hatice Açıköz Tufan- Umur Kıvanç Şahin- Selçuk Karagöz- Kübra Çalışır	31 - The Effects of Covid-19 Pandemic on Sustainable Clothing Consumption / Nazan Okur- Canan Sarıçam- Aleyna Rumeysa İri- İrem Sarı
16:00-16:15	44 - Mechanical and Morphological Properties of Kevlar® Fibre Reinforced Polyurethane Rigid Foam Cores for Sandwich Composites / Gaye Kaya- Erdem Selver- Tebernuş Dinçer- Arzu Atıcı	25 - An Image Processing Based Method To Determine The Number of Filaments In Multifilament Synthetic Yarns / Sevda Filiz- Musa Kılıç- Gonca Balcı Kılıç- Murat Demir	48 - Investigation of The Effect of Repeated Recycling on Yarn and Fabric Performance Properties / Yaşar Erayman Yüksel- Mehmet Kertmen- Aybüke Şen- Yasemin Korkmaz
16:15-16:30	64 - Development of Flexible Sensor Structures with Alert Feature on Roller Blind Surface Working with Solar Energy / Berlin Hacıoğlu	154 - On Loom Machine Vision System Design for Real-Time Fabric Inspection / Zehra Saroğlu- Halil Ibrahim Çelik- Mehmet Topalbekiroğlu	156 - A Sustainable Approach for the Knit Design / Gizem Çalışkan Köker- Emine Dilara Koçak
BREAK			
POSTER SESSION			
Special Session in Tribute to Professor A. Pedro SOUTO, Minho University (Portugal) Chairman: Prof. Dr. Helder CARVALHO			
17:15-18:00	Textile Pretreatment, Coloration and Finishing Technologies Chairman:	Fiber Science and Technology Chairman: Prof. Dr. Savvas VASSILIADIS (Greece)	Textile Chemistry / Functional and Smart Textiles Chairman: Prof. Dr. Vincent NIERSTRASZ (Sweden)
17:15-17:30	138 - Effect of Plasma and Cationization Pre-Treatments on Fastness and UV Protection of Cotton Dyed with Madder / Marta Fernandes- Cátia Alves- Rui Rodrigues - Andrea Zille	140 - 3D Printing of Flexible Conductive Polymers on Textiles for Sensing and Electrical Connection / Eva Monteiro- Helder Carvalho- Ana Rocha- Derya Tama- Helder Puga	160 - Dynamic Pigmentary Coloration: Colourfastness Properties and Design of Textile Colour Change Behaviour / Isabel Cabral- Diana Santiago- Fernanda Steffens
17:30-17:45	144 - Sustainable Dyeing of Cotton with Coffee Extract Natural Dye / Micaela Gomes- Pedro Gomes- Jorge Santos- Graça Soares	145 - Physicochemical Characteristics of Lignin-Cellulosic Fibers From <i>Bactris Setosa</i> Leaves / Rayana De Queiroz- Adriana Duarte- Ana Cristina Broega	128 - Co-Axial Wet-Spun Fibrous Constructs for Chronic Wound Care / Catarina S. Miranda- A. Francisca G. Silva- Sílvia M. M. A. Pereira-Lima- Susana P. G. Costa- Natália C. Homem- Helena P. Felgueiras
17:45-18:00	141 - Synergistic Activity of a Novel Class of Azoimidazole Dyes with Polyvinylpyrrolidone-Silver Nanoparticles for the Development of Antibacterial Textiles / Ana Isabel Ribeiro- Daniela Dantas- Luis Filipe Carvalho- Jorge Padrão- Renata Silva- Fernando Remião- Eugénia Pinto- Fátima Cerqueira- Alice Dias- Andrea Zille	137 - Exploring the Antibacterial Potential of Hybrid Fiber-Hydrogel Scaffolds Modified with Natural Extracts Against Skin Infections / Marta Teixeira- Helena Felgueiras- Joana Antunes- Carla Silva	139 - Tiger 17 Peptide Loaded Polycaprolactone/Cellulose Acetate Electrospun Nanofibrous Mats for Applications in Cutaneous Wound Dressings / Ana Ribeiro- Sílvia Pereira-Lima- Susana Costa- Helena Felgueiras
CLOSING			

19 May 2022, Thursday

PLENARY TALK: Prof. Dr. Xungai WANG, University of Deakin, Australia "Fibre Materials Research that Makes a Difference"			
09:30-10:15			
10:15-11:15	Functional and Smart Textiles Chairman:	Fibre Science and Technology/Nanotechnology Applications in Textiles Chairman: Prof. Dr. Yasemin KORKMAZ	Textile Pretreatment, Coloration and Finishing Technologies Chairman: Prof. Dr. Erhan ÖNER
10:15-10:30	102 - Industrial Scale Production of Multichromic Textile Based Smart Sensors / Eray Akkuş - Ugur Ergunay- Rıza Atav	47 - Thermally Conductive Al2O3 Nanofiber/Polymer Composites / Shakhawat Hossain - Koji Nakane	89 - Soybean Oil Based Uv-Curable Coating Formulations for Improvement of Washing Fastness of Waterproof Cotton Fabrics / Zehra Yıldız - Hacer Ayşen Önen- Atilla Güngör
10:30-10:45	8 - Passive Daytime Cooling Cotton Fabric with Adaptive Comfort Features / Nazife Korkmaz Memiş - Sibel Kaplan	14 - Production of Nanofiber Containing Olive Leaf and Usages in Biomedical Area / Nilsen Sünter Eroğlu - Suat Canoğlu	46 - Coloration of Polyamide Fabrics without Using a Dye / Ece Karagören Rıza Atav- Selma Soysal
10:45-11:00	107 - Design and Development of PLA Based Nanofibrous pH Indicator / Handan Palak - Burçak Karagüzel Kayaoğlu	45 - Could Perlon (PA6) Substitute Nylon (PA6,6) to Provide Cost Advantage in Flocked Upholstery Fabrics? / Barış Bekiroğlu	19 - Natural Dye-stuff Extraction from Black Carrot and its Textile Application / Elçin Emekdar - Umut Kıvanç Şahin- Benu Ötev- Betül Şura Özdem- Yaren Masır
11:00-11:15	173 - Acoustic and Cost Evaluation of Using Alternative Material for the Wheel Arch Liner in the Automotive Industry / Halim Sevim - Ecem Nur Keskin- Merve Öğüten	174 - Investigation of Mechanical, Thermal and Tactile Comfort Properties of Alternative Fabrics to Cotton in Bedding Fabrics / Umut Bilen	35 - Investigation of the Effect of Different Crosslinkers on Pigment Printing Quality / Leman Atiker - Yağmur Bozkurt- Arif Taner Özgüney
11:15-11:30 BREAK			
11:30-12:30	Technical Textiles Chairman: Prof. Dr. Saber BEN ABDESSELEM (Tunisia)	Weaving, Knitting and Nonwoven Technologies Chairman: Prof. Dr. Yordan KYOSEV (Germany)	Textile Pretreatment, Coloration and Finishing Technologies Chairman:
11:30-11:45	116 - Surface Treatment of Biomedical Textile Made of Polyester Monofilament / Foued Khoffi - Yosri Khalsi- Abdel Tazibt- Slah Msahli- Frédéric Heim	65 - Evaluation of Emotional Healing for Fabrics Based on the Tactile Sensation / Narantogtokh Davajav- Sachiko Sukigara	72 - Investigation of the Effects of Temperature and Time on the Fixation Process Applied to the Printed Acrylic Tops / Edanur Turgut - Muhammed Idris Aktaş- Mehmet Topalbekiroğlu
11:45-12:00	177 - Development of Conductive Knitted Fabrics that Provide Electromagnetic Shielding / Fatma Nilay Çağman - Mevra Çeken - Ecem Dağlı	40 - Investigation of Opportunity to Use 3D Printing Technology on the Textile Machines / Hülya Kıcık- Ergin Karadeniz	37 - Design of Eco-Friendly Grease Removal Process with Novel Surfactant Recipe / Elçin Emekdar- Hatice Açıkgöz-Tufan - Fulya Furat- Umut Kıvanç Şahin
12:00-12:15	97 - Production of Multifunctional Automotive Upholstery Fabrics by Flame Lamination / Yağmur Firuze Podak - Cumhur Gürel- Murat Ak- Fatma Göktepe	56 - Effect of Loop Length on Tactile Comfort of Knitted Fabrics / Berna Cüreklibatır Ercan	115 - Effect of Silicone Softener Type on Polyester Chemile Yarn Fastness Performance / Ibrahim Halil Tekin - Serdar Saycan
12:15-12:30	57 - Obtaining Sustainable Flame Retardant Natural Fiber Reinforced Composites using Tannic Acid as Flame Retardant / Bengi Kutlu - Erdem Selver- Cansel Emir	163 - A Comparison of the Three Techniques in Predicting Breaking Strength of Cotton and Blended Woven Fabrics / Bilge Berkhan Kastacı - H.Ziya Özek- Erkan Özhan	104 - Obtaining Pattern via Chemical Modification with Laser on Cotton/Polyacrylonitrile Tight Fabrics / Rıza Atav- Sevda Köksal Daban - Erdoğan Çetin
12:30-13:30 LUNCH BREAK			
PLENARY TALK: Prof. Dr. Paul KIEKENS, Ghent University, Belgium "Textiles and Clothing: Challenges for an Increasingly Environmentally Demanding World"			
14:15-15:15	Fibre Science and Technology Chairman: Prof. Dr. Ömer Berk BERKALP	Textile Modeling and Simulation / Textile Testing and Quality Control Chairman: Prof. Dr. Yıldray TURHAN	Textile and Fashion Design Chairman: Prof. Dr. Jelka GERŠAK, Slovenia
14:15-14:30	61 - A Study on Some Mechanical Performances of Bulked Continuous Filament Yarns Produced by Polypropylene Homopolymer, Polypropylene Copolymer and Thermoplastic Polyolefin Ternary Blends / Cemile Emel Yaz - Cem Güneşoğlu- Mehmet Topalbekiroğlu	5 - Prediction of Parameters Causing Dimensional Change on 100% Cotton Fabrics During Tumble Drying / Ayşin Aeer - Hatice Açıkgöz Tufan- Umut Kıvanç Şahin- Selçuk Karagoz- Ali Kerem Güran	50 - Sustainable Denim Design Concepts for Cleaning Up the Industry / Edit Dr. Csanák
14:30-14:45	54 - Effects of Cotton and Viscose Fibers on Acrylic Fiber Blended Yarns / Seval Uyank - Sabih Ovalı	101 - Increasing The Thermal Resistance of Denim Fabric / Nilgün Becenen - İsmail Yüce- Gökhan Eyi	157 - An Overview of F/W 23-24 Trends in the Shade of Covid-19 / Ege Gazioğlu
14:45-15:00	148 - Cupro Fiber: Properties and Usage Areas / Okşan Oral- Esra Dilgar- Alime İlcez	16 - Fabric Defect Detection Using Deep Learning Computer Vision Model / Cenk Balkan - Yasemin Rendeçi Kurt- Gökşel Birtek- İsmail Aslan	43 - Face Mask / Beste Gül Ermiş
15:00-15:15	122 - A Review of Studies on Nanofiber Coating of Acrylic and other Yarns Using Electrospinning Method / Muhammed Idris Aktaş	30 - Machine Vision Bobbin Analysis System with Deep Learning Approach / Elçin Emekdar- Hatice Açıkgöz-Tufan - Umut Kıvanç Şahin- Senem Kurşun Bahadır- Seval Ayata Konukoğlu- Cansu Batçık Genç- Turkan Kubra Baykan- Ersen Çatak- Ç. Deniz Şentürk	126 - Design of Labels for People with Visual Impairment / İlay Özsev Yüksek- Büşra Özdemir- İzel Kabağaç- Şükriye Yüksel Filiz- Nevin Çiğdem Guroy- Pelin Altay
15:15-15:30 BREAK			
15:30-16:30	Nanotechnology Applications in Textiles Chairman:	Yarn Spinning Technologies Fibre Science and Technology Chairman: Prof. Dr. Hüseyin KADIOĞLU	Ecology and Sustainability Chairman:
15:30-15:45	164 - Plant Extract Containing Polymeric Nanofibrous Membranes for Wound Healing / Kadriye Tuzlakoğlu - Zeliha Esra Çakmak- Nergis Zeynep Renkler	78 - Investigation of the Effect of Blend Ratio of Relaxed Nonrelaxed Acrylic Fibers on Some Yarn Properties/ Büşra Aslan- Muhammed Idris Aktaş - Mehmet Topalbekiroğlu	90 - Development of Environmentally-Friendly Alternative Method to Hypochlorite for Denim Bleaching / Öner Gündüz - Gizem Çakan- Hasan Hüseyin Kutlu- Rıza Atav
15:45-16:00	10 - Effect of Emulsion Electrospun Nanofibres Spinning Duration on the Drug Release Behaviors / Hülya Kesici Güler - Funda Cengiz Çallıoğlu	165 - The Effect of Recycle Cotton Fiber Content on Ring Spun Yarn Properties / Ayşe Türktaş Ali - Emrah Oktaykan - Eylem Çetinkaya - Fatma Göktepe	83 - Conversion of the Drying Process of Denim Garments with Drum Machines to Closed-Cycle Using Zeolite Desiccant / Ebru Çalışkan - Orhan Erdal Akay- Yasin Özbey- İrfan Özdemir
16:00-16:15	66 - Photochromic Nanofiber Based UV Sensor / Seniha Morsümbül - Emriye Perrin Akçakoca Kumbasar- Simge Alır Kıyak- İraz Gizem Alemdar	86 - Characterization and Production of Plasma Functionalized CNTs and Nanocomposite Fiber / Bengi Kutlu - Aysun Akşit- Lütfi Ozyüzer- Nesli Yağmircukardeş	32 - Analysis of The Changes in Consumer Behavior Towards Sustainable Fashion in Covid-19 Pandemic Situation / Nazan Okur - Canan Sarıcam- Abdul Melik Turan- Mesut Karaca- Emir Nalınçoğlu
16:15-16:30	7 - Development of Denim and Non-Denim Garments Having Viral "Against Coronavirus" and Microbial Reducing Activity / İsmail İvedî - Eylül İğaç- Ezgi Kartdemir- Gözde Gürler- Gizem Çelik	100 - Media Analysis of Textiles: Status quo of Social Perception/ Mustafa Soylu	149 - Bio-Based Photocurable Coatings Reinforced with Platanus Orientalis (Chinar Tree) Leaf Powder for Light Weight Tarpaulin / Zehra Yıldız
16:30-16:45 BREAK			
16:45-17:30	Functional and Smart Textiles Chairman: Prof. Dr. Sema PALAMUTÇU	Textile and Fashion Design/Apparel Technology/ Textile Management Chairman:	Textile Pretreatment, Coloration and Finishing Technologies/Textile Chemistry Chairman: Prof. Dr. Necla YAMAN

16:45-17:00	153 - Electroconductive Polyester-Poly(3,4-Ethylenedioxythiophene) Smart Textiles / Hidayet Baęer- Suat etiner- Mert Can Korkmaz	71 - Online Follow up of an Acrylic Yarn Production Line with PLC System / Dilara Muhacir- Muhammed Idris Aktař- Mehmet Topalbekiroęlu	124 - Investigation of Natural Dyeing Process Parameters of Knitted Fabric Consist of EcoCell® Yarn / Kubilay zden - Tulin Kaya Nacarkahya- Tuęe Yaęmur ęit- Banu Yeřim Bıyıkakıncı
17:00-17:15	51 - Development of Functional Cotton T-Shirt with Aromatherapy Feature Using Cyclodextrins / Durul Bıřra Dilden- Muhammed Fatih Yksel - Rıza Atav	171 - Determining The Advantages of 3D Clothing Systems in The Apparel Industry / Emel Alaybeyoęlu - Medine Uęur- Eylül Sayęı	105 - System Design for Shorter Oxidation on Slasher Dyeing Machines / Ahmet zhan Tanrıver
17:15-17:30	99 - Heating Function Analysis of Light-Weight Conductive Woven Fabrics / Yaęmur Firuze Podak - Cumhur Grel- zer Gktepe	74 - Transition to Digital in Towel Apparel: Instant Data Processing and Traceability / Barıř Mancar - Burak alhan- Selahattin Telat Ateř- Melike Kauđer alhan	17 - Development of Ozone Effecting System without Using Harmful Chemicals / İrem Palabıyık - Ferudun Zeytinz
17:30-18:00	HALL A: CLOSING CEREMONY		

