

INTERNATIONAL SCIENTIFIC CONFERENCE

**"Innovative solutions for sustainable development of
textiles and leather industry"**

**29th-30th May, 2025
Oradea, ROMANIA**

Programme

	May 29th, 2025	
09:30-10:00	Registration of the participants Continental Hotel Aleea Ștrandului nr. 1, Oradea 410051	
10:00-12:00	Opening ceremony	
	Vice Dean Assoc. Prof. Dr. Liliana INDRIE Head of Department: Assoc. Prof. Dr. Sabina GHERGHEL Assoc.Prof.Dr. Lodrick Makokha Wangatia Department of Textile and Apparel Design, University of Eswatini (UNESWA)	
	Keynote speakers	
	Assoc.Prof.Dr.Satyadev Rosunee- Faculty of Engineering, University of Mauritius, Mauritius	55 YEARS OF THE MAURITIAN TEXTILE & APPAREL INDUSTRY: RESILIENCE, INNOVATION AND SUSTAINABILITY
	Prof. Dr. Muhammet Uzun - Department of Textile Engineering Marmara University,Turkey	THE ISSUE OF INDUSTRIAL SURVIVAL: THE CASE OF HEMP IN THE TEXTILE SECTOR
	Assoc.Prof.Dr. Aminoddin Haji- Department of Textile Engineering, Yazd University, Iran	INNOVATIVE BIO-DERIVED DYEING TECHNIQUES FOR FUNCTIONAL AND ECO-FRIENDLY TEXTILES
	Assoc. Prof.Dr. Rooholah Bagherzadeh, Department of Textile Engineering, Amirkabir University of Technology	HYBRID STRATEGIES FOR WEARABLE PIEZO-TRIBOELECTRIC DEVICES
	Fashion Show "Young signature collection"- Liliana Doble This collection, developed in collaboration with Atelier Lalia Boutique and with the support of students from the Department of Textiles, Leather, and Industrial Management, stands as a manifesto of youthful creativity and the inspiration of summer.	
12:00-12:30	Coffee Break Poster Session	
12:30-14:00	Session I	
	DOCIU Maria-Ariana¹, GHERGHEL Sabina² ¹ University of Oradea, Faculty of Law, Department of Law and Administrative Sciences, Oradea, Romania ² University of Oradea, Energy Engineering and Industrial Management Faculty, Department of Textile-Leather and Industrial Management, Oradea, Romania	FROM THEORY TO PRACTICE: THE EUROPEAN UNION'S LEGISLATION ON WASTE MANAGEMENT AND THE CURRENT SITUATION OF TEXTILE RECYCLING IN ROMANIA
	VRINCEANU Narcisa¹, OUFELLI Noureddine², IRIDON Anca¹ ¹ "Lucian Blaga" University, Faculty of Engineering, Department of Industrial Machines and Equipments, Sibiu, Romania, ² University of Tunis El Manar, Institut Supérieur des Technologies Médicales de Tunis, Laboratoire de Biophysique et Technologies Médicales, 1006 Tunis, Tunisia	A NEW MODELING APPROACH OF THE SURFACE PROPERTIES OF POLYMERIC SUPPORTS

	<p>KOITUMET Joel Sabore¹², MWASIAGI Josphat¹, AQSA Imran³, OCHOLA Jerry¹</p> <p>¹Moi University, School of Engineering, Department of Manufacturing, Industrial and Textile Engineering, Eldoret, Kenya</p> <p>²Technical University of Mombasa, School of Engineering and Technology, Department of Medical Engineering, Mombasa, Kenya</p> <p>³National Textile University, Department of Textile Engineering, Sheikhpura Road, Faisalabad - Pakistan</p>	<p>AVAILABILITY AND AWARENESS OF BANANA FIBER AS A SUSTAINABLE MATERIAL: A CASE STUDY OF KENYAN BANANA FIBER PRODUCTION</p>
	<p>DONDEA Maria -Felicia¹, PERDUM Elena¹, VISILEANU Emilia¹, DINCA Laurentiu¹, RADULESCU Razvan¹, LUPESCU Cezar¹</p> <p>¹National Institute for Textile and Leather Bucharest, Romania</p>	<p>FUNCTIONALISATION OF TEXTILE MATERIALS WITH VOLATILE COMPOUNDS</p>
	<p>INDRIE Liliana¹, TRIPA Simona¹, GHERGHEL Sabina¹, CACIORA Tudor², DIAZ-GARCIA-Pablo³, MINGUEZ-GARCIA David⁴</p> <p>¹ University of Oradea, Energy Engineering and Industrial Management Faculty, Department of Textile-Leather and Industrial Management, Oradea, Romania</p> <p>University of Oradea, Department of Geography, Tourism and Territorial Planning, Oradea, Romania</p> <p>²Universitat Politècnica de València, Departamento de Ingeniería Textil y Papelera, Alcoi, Spain</p>	<p>VIRTUAL REALITY FOR SUSTAINABLE FASHION EDUCATION: THE FASHION.ED PROJECT EXPERIENCE</p>
	<p>ARTHUR Albert Kwame¹</p> <p>¹University of Education, Winneba, School of Creative Arts, Department of Art Education, Winneba, Ghana</p>	<p>EXPLORING THE USE OF FOOTWEAR BUFFING DUST FOR SCULPTING IN GHANA</p>
14:00-15:30	Lunch	
15:30-17:00	Session II	
	<p>COBAN Semiha Sultan¹, ORK EFENDIOGLU Nilay¹, MUTLU Mehmet Mete¹</p> <p>¹Ege University, Engineering Faculty, Leather Engineering Department, Izmir, Turkey</p>	<p>APPLICATION OF KERMES OAK (<i>QUERCUS COCCIFERA</i>) IN LEATHER DYEING: A NATURAL AND SUSTAINABLE APPROACH</p>
	<p>SEL Gullu¹, YORGANCIOGLU Ali¹, ONEM Ersin¹</p> <p>¹Ege University, Department of Leather Engineering, Izmir, Turkey</p>	<p>HIGH-EFFICIENCY CHROME TANNING: REDUCING WATER INPUT IN LEATHER PROCESSING</p>
	<p>VISILEANU Emilia¹, STEPA Raluca², ALTMANN Korinna³, MICLEA Paul Tiberiu⁴, VLADU Alina¹, Maria Haiducu², DONDEA Felicia¹, SCARLAT Razvan¹, GROSU Catalin¹</p> <p>¹ The National Research and Development Institute for Textile and Leather, Bucharest, Romania</p>	<p>EXPERIMENTS TO ASSESS POLLUTION LEVELS IN THE TEXTILE MATERIALS PROCESSING INDUSTRY</p>

	<p>² "Alexandru Darabont" National Research-Development Institute for Labor Protection, Bucharest, Romania</p> <p>³ Bundesanstalt für Materialforschung und Prüfung (BAM), Unter den Eichen 87, 12205 Berlin, Germany</p> <p>⁴ Fraunhofer Centre for Silicon Photovoltaics, Halle (Saale), Germany</p>	
	<p>NKOMO Nkosilathi¹, NDLOVU Lloyd², MUJENA Claytos³</p> <p>^{1,2,3} National University of Science and Technology, Faculty of Engineering, Department of Fibre and Polymer Materials Engineering, Bulawayo, Zimbabwe</p>	<p>DEVELOPMENT OF A FIBRE GLASS/SISAL FIBRE HYBRID COMPOSITE FOR USE AS A CROSSARM IN ELECTRICITY DISTRIBUTION NETWORK</p>
	<p>ZURLEVA Elena</p> <p>Faculty of Technics and Technologies, Trakia University, Yambol, Bulgaria</p>	<p>SUSTAINABLE DESIGN BY PRESERVING FASHION HERITAGE</p>
	<p>AMANDORON M.U. Kristine, MARTÍNEZ-GONZÁLEZ Inés, GISBERT-PAYÁ Jaime, BONET-ARACIL Marilés</p> <p>Universitat Politècnica de València, Textile and Paper Department, Ferrándiz y Carbonell s/n, 03801, Alcoy, Spain</p>	<p>MODIFICATION OF COTTON FABRICS WITH CHITOSAN FOR IMPROVED DYEABILITY WITH ACID ORANGE 7</p>
	<p>MARTÍNEZ-GONZÁLEZ Inés, MÍNGUEZ-GARCÍA David, MONTAVA Ignacio, BOU-BELDA Eva</p> <p>Universitat Politècnica de València, Textile and Paper Department, Ferrándiz y Carbonell s/n, 03801, Alcoy, Spain</p>	<p>SMART CHROMIC DRESSING FOR NON-INVASIVE GLUCOSE MONITORING: A THEORETICAL DESIGN</p>
May 30th, 2025		
10:00-11:30	Session III	
	<p>FRUNZE Valentina^{1,2}, FĂRÎMĂ Daniela¹, IROVAN Marcela²</p> <p>¹Gheorghe Asachi Technical University of Iasi, Faculty of Industrial Design and Business, Iasi, Romania</p> <p>²Technical University of Moldova, Faculty of Design, Department of Design and Tehnology in Textiles, Chisinau, Republic of Moldova</p>	<p>PERSONALIZED PATTERNS FOR PEOPLE WITH DISABILITIES USING 3D MODELING</p>
	<p>NANDLAL Vedushee Devi¹, UNMAR Roshan², ROSUNEE Satyadev³</p> <p>¹University of Mauritius, Faculty of Engineering, Department of Applied of Sustainability Development, Mauritius,</p> <p>²University of Mauritius, Faculty of Engineering, Department of Applied of Sustainability Development, Mauritius</p> <p>³University of Mauritius, Faculty of Engineering, Department of Applied of Sustainability Development, Mauritius</p>	<p>INVESTIGATION INTO IMPROVING LOOP LENGTH PREDICTION IN WEFT-KNITTED FABRICS USING EXPERIMENTAL AND GEOMETRICAL APPROACHES</p>
	<p>BRAD Raluca</p> <p>¹"Lucian Blaga" University, Faculty of</p>	<p>ADVANCES IN TEXTILE MANUFACTURING WITH 3D</p>

	Engineering, Department of Industrial Machines and Equipments, Sibiu, Romania, FRUNZE Valentina^{1,2}, FĂRÎMĂ Daniela¹, IROVAN Marcela²	PRINTING TECHNOLOGY
	¹ Gheorghe Asachi Technical University of Iasi, Faculty of Industrial Design and Business, Iasi, Romania ² Technical University of Moldova, Faculty of Design, Department of Design and Tehnology in Textiles, Chisinau Republic of Moldova	THE CLOTHING-PERSON RELATIONSHIP: COMPARATIVE ANALYSIS OF A STANDARD T-SHIRT ON A HEALTHY BODY AND ONE AFFECTED BY A NEURO-IMMUNE CONDITION WITH CLO3D
	BUCEVSCHI Adina¹, PUSTIANU Monica¹, POPA Alexandru¹ ¹ Aurel Vlaicu University of Arad, Faculty of Engineering, Department of Automation, Industrial Engineering, Textiles and Transport, Arad, Romania	ANALYTICAL AND CONTROL METHODS FOR ASSESSING QUALITY AND NON-QUALITY PARAMETERS. A CASE STUDY
11:30-12:00	Coffee Break Poster Session	
12:00-13:00	Session IV	
	GROSU Cristina¹, POPESCU Georgeta¹, VISILEANU Emilia¹ National R&D Institute for Textile and Leather, Bucharest, Romania,	SOFTWARE APPLICATIONS FOR MILITARY EMERGENCY RESCUE EQUIPMENT
	RĂDULESCU Ion Răzvan¹, LUPESCU Marius Alexandru Cezar¹, PERDUM Elena¹, DINCĂ Laurențiu Christian¹ ¹ The National Research and Development Institute for Textiles and Leather Bucharest, Department of Research and Investigation of Materials, 16 Lucretiu Patrascanu St., 030508, Bucharest, Romania	GEOPOLYMERS - SUSTAINABLE MATERIALS FOR ADVANCED TEXTILES, A SHORT REVIEW
	LITE Mihaela-Cristina¹, CHIRILĂ Laura¹, POPESCU Alina¹, CONSTANTINESCU Rodica Roxana¹, SIMION Demetra¹ ¹ National Research and Development Institute for Textiles and Leather, Bucharest (INCDTP), Department of Materials' Research and Investigation, 16 Lucretiu Patrascanu, 030508, Bucharest, Romania	ANTIMICROBIAL BEHAVIOR OF GREEN SILVER NANOPARTICLES DEPOSITED ON KNITTED TEXTILE SUPPORT
13:00-13:30	Closing ceremony	

Full paper presentation should not exceed 15 minutes.

Poster Session

Article Title: LARGE-SCALE OPERATIONS CARGO PARACHUTE SYSTEM

Author: SALISTEAN ADRIAN

Article Title: DIGITAL FASHION - A SUSTAINABLE ALTERNATIVE FOR THE FUTURE

Author: FLOREA-BURDUJA Elena, CANGAȘ Svetlana, BURDUJA Valeria

Article Title: SPORTWEAR PREFERENCES AND SATISFACTION OF KENYAN FEMALE SITTING VOLLEYBALL ATHLETES WITH PHYSICAL DISABILITIES

Authors: OTINA Millicent, MWASIAGI Josphat, ABONG'O Susan

Article Title: ECO-TEXTILES FOR A SUSTAINABLE FUTURE IN THE PRODUCTION OF SPORTS SHOES

Authors: DOBLE Liliana, BÖHM Gabriella

Article Title: TREATMENTS APPLIED TO THE MATERIALS IN THE COMPOSITION OF MATTRESS COVERS

Authors: BOHM Gabriella, ȘUTEU Marius Darius, DOBLE Liliana, FETEA Lucian

Article Title: THE INVOLVEMENT OF ARTIFICIAL INTELLIGENCE IN THE PATTERN-MAKING AND DESIGN PROCESS

Authors: RAȚIU Georgiana Lavinia, ȘUTEU Marius Darius

Article Title: SUSTAINABILITY AND INNOVATION TRANSFORMING FASHION OPERATIONS MANAGEMENT

Authors: BELLEMARE Jocelyn, LÉGER Anne

Article Title: THE INTEGRATION OF 3D DESIGN AND BIOCOLORING IN SUSTAINABLE FASHION DESIGN

Authors: IROVAN Marcela¹, RARU Aliona¹, FLOREA-BURDUJA Elena¹, BUJOREAN Tatiana¹, ETCU Elena¹

Article Title: FOOTWEAR UNDER THE IMPACT OF DIGITAL TECHNOLOGIES: A REVIEW

Authors: TRIPA Florin Marin

Article Title: DIGITAL FASHION - A SUSTAINABLE ALTERNATIVE FOR THE FUTURE

Authors: FLOREA-BURDUJA Elena¹, CANGAȘ Svetlana², BURDUJA Valeria³

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Industrial)**