ORGANIZED BY:

NATIONAL RESEARCH & DEVELOPMENT INSTITUTE FOR TEXTILES AND LEATHER (INCDTP) - DIVISION LEATHER AND FOOTWEAR RESEARCH INSTITUTE (ICPI)







ICAMS 2022

ADVANCED MATERIALS AND SYSTEMS

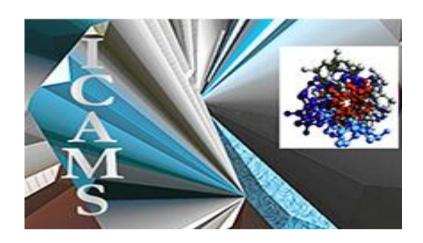
Programme of the 9th International Conference

October 26th - 28th, 2022

Online Event







ICAMS 2022

9th International Conference on Advanced Materials and Systems

CONFERENCE PROGRAM

26-28 October 2022 Bucharest, Romania www.icams.ro

Partners

ORGANIZED BY:



National Research & Development Institute for Textiles and Leather (INCDTP), Bucharest, Romania



Division Leather & Footwear Research Institute (ICPI) Bucharest, Romania



Leather Engineering
Department
Ege University, Turkey



Mustafa Kemal University, Turkey



(4)

China Leather & Footwear Research Institute Co. Ltd., China



"Politehnica" University Bucharest, Romania



"Gh. Asachi" Technical University of Iasi, Romania



Bucharest Academy of Economic Studies, Romania



"ITA TEXCONF"
Romanian
Entity within Innovation &
Leather Technological Transfer



Confederation of National Associations of Tanners and Dressers of the European Community



Sfera Factor The Romanian Leather Manufacturers Organization





FOREWORD

ICAMS 2022 is offering the framework for presenting the latest results in research, focusing on the field of Materials Science and Innovative Technologies, which records an impressive dynamics and is recognized as a current national and European priority.

The ICAMS 2022 international event, organised by the National Institute for Research and Development for Textiles and Leather - Division Leather and Footwear Institute (INCDTP-ICPI) takes place online on 26-28 October 2022. ICAMS 2022 brings together different stakeholders and provides a platform for a better understanding of the European innovation ecosystem while raising awareness of the actions needed to enable synergies and drawing lessons for future actions.

The conference provides the opportunity for exchanging ideas and experience with researchers, scientists and experts at international level, and for developing new scientific contributions.

Around 100 participants will virtually attend the event from several academic and research institutions, public and private sectors, as well as Managing Authorities. Participants will present their experience on research, innovation, policies and the creation of synergies. All these inputs offer insightful elements for discussion in the different participatory sessions throughout the event.

The conference topics include, but are not limited to:

Advanced Materials and Nanomaterials
Biomaterials and Biotechnologies
Innovative Systems, Technologies and Quality Management
Ecological Processes for Circular and Neutral Economy
Creative Industries and Cultural Heritage
Education and Digitalization

We would like to thank all the participants, the International Scientific Committee, and the partners that made this scientific event possible. ICAMS Conference has already become a tradition, contributing to the advancement of Materials Science in research, academic, social and business environments worldwide.

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Director, INCDTP - Division: Leather and Footwear Research Institute (ICPI), RO

Dr. Gheorghe COARĂ

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Durmuş Alpaslan KAYA, Mustafa Kemal University, Antalya, TR

Short Program

11:15-11:30

Wednesday, Octobe	Wednesday, October 26 th 2022		
10:00 - 10:10	OPENING CEREMONY		
10:10 – 11:25	Oral presentations TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS		
11:25 – 11:45	SHORT BREAK		
11:45 – 12:55	Oral presentations TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES - Part 1		
12:55 – 13:15	SHORT BREAK		
13:15 – 14:15	Oral presentations TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES – PART 1 (CONTINUED)		
15:00 – 17:30	WORKSHOP MUSEION IoT-BASED SYSTEM FOR UNDERSTANDING AND CONTROLLING THE ENVIRONMENTAL QUALITY IN MUSEUMS		
Thursday, October	27 th 2022		
10:00 – 10:55	Oral presentations TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES - Part 2		
10:55 – 11:00	SHORT BREAK		
11:00 – 12:15	Oral presentations TOPIC 3: INNOVATIVE SYSTEMS, TECHNOLOGIES AND QUALITY MANAGEMENT		
12:15 – 12:30	SHORT BREAK		
12:30 – 13:10	Oral presentations TOPIC 3: INNOVATIVE SYSTEMS, TECHNOLOGIES AND QUALITY MANAGEMENT (CONTINUED)		
13:10 - 14:00	SHORT BREAK		
14:00 – 15:25	Oral presentations TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND NEUTRAL ECONOMY		
Friday, October 28	Friday, October 28th 2022		
10:00 – 11:00	Oral presentations TOPIC 5: CREATIVE INDUSTRIES AND CULTURAL HERITAGE		
11:00 – 11:15	Oral presentations TOPIC 6: EDUCATION AND DIGITALIZATION		

CLOSING CEREMONY

Wednesday, October 26th 2022

OPENING CEREMONY	
10:00 - 10:10	Dr. eng. Laurentia ALEXANDRESCU; INCDTP-Division ICPI
10:10	TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS
11:25	Chairs: Carmen GAIDĂU, Maria STANCA
INVITED LECTURE	
	Giuseppe LAZZARA, Giuseppe CAVALLARO, Lorenzo LISUZZO, Maria

10.10 - 10.30

10:30 - 10:35

10.35 - 10.40

10.40 - 10.45

10.45 - 10.50

10.50 - 10.55

10:55 - 11:00

11:00 - 11:05

11:05 - 11:10

Rita CARUSO, Martina CALVINO

Dilsat BOZDOGAN KONUSKAN

Preparation of Wax Microparticles Stabilized by Halloysite Nanotubes:

Anna BONDARYEVA, Maryna ZHALDAK, Olena MOKROUSOVA, Olena OKHMAT

Demetra SIMION, Carmen GAIDAU, Mariana Daniela BERECHET, Maria

Influence of Olive Maturity on some Physicochemical Properties and Fatty Acid

Ion Razvan RADULESCU, Emilia VISILEANU, Razvan SCARLAT, Cristian

Stainless Steel and Copper Magnetron Plasma Coating of Fabrics with

Laurentia ALEXANDRESCU, Mihai GEORGESCU, Maria SONMEZ, Anton

Maria SONMEZ, Cristina-Elisabeta PELIN, Mihai GEORGESCU, George PELIN, Maria Daniela STELESCU, Mihaela NITUICA (VILSAN), George

Unmanned Aerial Vehicles - Classification, Types of Composite Materials

Composition of Monovarietal Olive Oil of Extracted from Halhali Cultivar

The Influence of Additive Manufacturing in the Textile Industry

Polyamide/Polyethylene/Carbon Fibre Polymer Nanocomposites

Review of Green Methods of Synthesis of Silver Nanoparticles

Metallic Yarns for Electromagnetic Shielding Applications

FICAI, Roxana TRUSCA, Ioana Lavinia ARDELEAN

STOIAN, Laurentia ALEXANDRESCU, Dana GURAU

Used in Their Structure and Applications

Olga SHYDLOVSKA, Yevhen KHARCHENKO

A Versatile Material for Restoration of Cultural Heritage
PRESENTATIONS

Modeling the Encapsulation of Turmeric in Nanoemulsions

Nanopigments for Leather Finishing Coating

STANCA, Rodica Roxana CONSTANTINESCU

Elena Cristina STROE, Raluca Maria AILENI

MORARI, Cristian STANCU, Bogdana MITU

Wednesday, October 26 th 2022	
10:10	TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS (CONTINUED)
11:25	Chairs: Carmen GAIDĂU, Maria STANCA
11:10 – 11:15	Raluca Maria AILENI, Elena Cristina STROE, Cristian MORARI Predictive Analysis of the Electromagnetic Shields Effectiveness
11:15 – 11:20	Suresh ALUVIHARA, C. S. KALPAGE, P.W.S.K. BANDARANAYAKE W.M.A.T. BANDARA, Ciprian CHELARU Investigations and Analysis of Earth Materials Towards the Developments in Some Advanced Chemical and Catalytic Uses
11:20 – 11:25	Teodor SARBU Smart Textiles Based on Conductive Woven Structures
11:25 - 11:45	SHORT BREAK

Wednesday, October 26th 2022 11:45 TOPIC 2: RIOMATERIALS AND RIOTECHNOLOGIES – PART 1 12:55 Chairs: Madalina Georgiana ALBU-KAYA, Ciprian CHELARU INVITED LECTURE Maria G. KATSIKOGIANNI Development of Sub-micron Patterned Polymeric Surfaces that Enhance 11.45 - 12.05Cell Adhesion for Orthopaedic Applications **PRESENTATIONS** Andreea TIGAU, Georgiana VASILE, Alina POPESCU, Rodica Roxana CONSTANTINESCU, Laura CHIRILA 12:05 - 12:10**Hydrogel Dressings with Antimicrobial and Healing Properties** Ciprian CHELARU, Maria Minodora MARIN, Madalina IGNAT 12:10 - 12:15Thermostability Study of Natural Polymer Microcapsules Darina ZHELEVA, Margarita KOLEVA, Desislava ANGELOVA. Desislava GRABCHEVA, Petar TODOROV 12:15 - 12:20Methods for Modification of Cotton Fabrics with Gelatin - Glutaraldehyde and ZnO Nanoparticles Demetra SIMION, Carmen GAIDAU, Mariana Daniela BERECHET, Maria STANCA, Cosmin Andrei ALEXE, Gabriela PAUN 12:20 - 12:25The Influence of Surfactants in Obtaining New Byproducts for Agriculture **Applications** Durmus Alpaslan KAYA, Musa TÜRKMEN 12:25 - 12:30Comparing of Eucalyptus (Eucalyptus camaldulensis and Eucalyptus grandis) **Essential Oil Compositions Growing in Hatay Ecological Conditions** Durmus Alpaslan KAYA, Yelda GÜZEL, Musa TÜRKMEN Determination of Essential Oil Components Obtained from Leaves and 12:30 - 12:35Aerial Parts of Ferulago syriaca Ece ÖZTOPRAK, Kaan ÖZTOPRAK Comparison of Two Different Etch Systems as Adhesion Resistance in 12:35 - 12:40**Dental Adhesive Systems** Elena-Emilia TUDOROIU, Mihaela-Violeta GHICA, Madalina Georgiana ALBU-KAYA, Cristina-Elena DINU-PIRVU, Lacramioara POPA, Valentina ANUTA, Bruno Ștefan VELESCU, Durmuş Alpaslan KAYA, Maria Minodora 12:40 - 12:45MARIN, Razvan Mihai PRISADA Rheological Characterization of Some Cellulose Derivatives-Based Hydrogels Georgiana VASILE, Andreea TIGAU, Alina POPESCU, Rodica Roxana CONSTANTINESCU, Laura CHIRILA 12:45 - 12:50Hydrogels-Based Textile Materials for Treatment of First-Degree **Burn Injuries** Ilaria QUARATESI, Filip ION-ANGI, Cristina CARSOTE, Sebastian-Bogdan TUTUNARU, Mihaela-Doina NICULESCU, Elena BADEA 12:50 - 12:55Synthesis and Characterization of Alginate-Gelatin Hydrogels with Potential Use in Biomedical Field

SHORT BREAK

12:55 – 13:15

TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES - PART 1 13:15 (CONTINUED) 14:15 Chairs: Madalina Georgiana ALBU-KAYA, Ciprian CHELARU

Wednesday, October 26th 2022

	, ,
13:15 – 13:20	Larisa SABLIY, <u>Veronika ZHUKOVA</u> , Lyubov KIKA Effective Biological Treatment of Tannery Wastewater from Nitrogen
	Compounds
	Kaan ÖZTOPRAK, Ece ÖZTOPRAK
13:20 – 13:25	Comparison of Surface Processes Applied to Preserve the Hydrophilic Property of Implants
	1 Toperty of Implants
	Kaan ÖZTOPPAK Ega ÖZTOPPAK

	Property of Implants
13:25 – 13:30	Kaan ÖZTOPRAK, Ece ÖZTOPRAK Investigation of Acid Residue on the Surface of Dental Implants after
	Different Surface Cleaning Processes
	Madalina Georgiana ALBU-KAYA, Mihaela-Violeta GHICA, Cristina-Elena DINU-PIRVU, Lacramioara POPA, Elena DANILA, Ciprian CHELARU
13:30 – 13:35	Valentina ANUTA, Durmuş Alpaslan KAYA, Marina-Theodora TALIANU,
	Ana-Maria STAVRI
	Hair Masks Based on Keratin and Collagen

	Different Surface Cleaning Processes
13:30 – 13:35	Madalina Georgiana ALBU-KAYA, Mihaela-Violeta GHICA, Cristina-Elena DINU-PIRVU, Lacramioara POPA, Elena DANILA, Ciprian CHELARU Valentina ANUTA, Durmuş Alpaslan KAYA, <u>Marina-Theodora TALIANU</u> , Ana-Maria STAVRI Hair Masks Based on Keratin and Collagen
13:35 – 13:40	Mahmoud Ali AHMED HUSSEIN, Habiba Sherif EL ROUBY, Mahmoud Ramadan BARAKAT The Impact of Environmental Knowledge on Recycling Intention: The Mediating Role of Perceived Behavioural Control

	Half Wasks Dased on Keratin and Conagen
13:35 – 13:40	Mahmoud Ali AHMED HUSSEIN, Habiba Sherif EL ROUBY, Mahmoud
	Ramadan BARAKAT
	The Impact of Environmental Knowledge on Recycling Intention: The
	Mediating Role of Perceived Behavioural Control
	Mariana CONSTANTIN, Rodica Roxana CONSTANTINESCU, Mihaela
	GANCIAROV, Raluca SUICA-BUNGHEZ, Ana-Maria GURBAN, Cristina
13:40 - 13:45	FIRINCA, Gelu VASILESCU, Luiza JECU, Iuliana RAUT, Madalina IGNAT
	Eco-Friendly Biodegradation of Skins and Hides by Keratinolytic Fungus

	The impact of Environmental knowledge on keeyening intention. The
	Mediating Role of Perceived Behavioural Control
	Mariana CONSTANTIN, Rodica Roxana CONSTANTINESCU, Mihaela
	GANCIAROV, Raluca SUICA-BUNGHEZ, Ana-Maria GURBAN, Cristina
13:40 - 13:45	FIRINCA, Gelu VASILESCU, Luiza JECU, Iuliana RAUT, Madalina IGNAT
	Eco-Friendly Biodegradation of Skins and Hides by Keratinolytic Fungus
	Cladosporium sp.
	Mariana Daniela BERECHET, Demetra SIMION, Rodica Roxana
13.45 – 13.50	CONSTANTINESCU, Maria STANCA, Cosmin Andrei ALEXE
13.4.1 - 13:30	

13:40 – 13:45	FIRINCA, Gelu VASILESCU, Luiza JECU, Iuliana RAUT, Madalina IGNAT
	Eco-Friendly Biodegradation of Skins and Hides by Keratinolytic Fungus
	Cladosporium sp.
	Mariana Daniela BERECHET, Demetra SIMION, Rodica Roxana
13:45 – 13:50	CONSTANTINESCU, Maria STANCA, Cosmin Andrei ALEXE
	Active Principles in Basil Essential Oil - Ocimum basilicum L. Cotton
	Linings with Antibacterial Properties
	Maria Minodora MARIN Georgeta RIJMRENECI Rodica Roxana

- 13:50 13:55CONSTANTINESCU, Ciprian CHELARU, Madalina Georgiana ALBU-KAYA
- New Cosmetics Based on Collagen and Caffeine with Antimicrobial Activity Mohammed Shaymaa OMAR MOHAMMED, Nicoleta RADU, Verginica 13:55 - 14:00SCHRODER, Rodica Roxana CONSTANTINESCU, Narcisa BABEANU Antimicrobial Properties of the Bioproducts Formulated with Chitosan and Collagen
- Musa TÜRKMEN, Durmuş Alpaslan KAYA, Filiz AYANOĞLU 14:00 - 14:05Variations in Essential Oil Main Components of Native Grown Salvia
- aramiensis Rech Fil. Genotypes Depending on Years Olga IUNGIN, Lesia MAISTRENKO, Kateryna RUDNIEVA. Olena
- MOSHYNETS, Viktoriia POTOCHYLOVA, Olena MOKROUSOVA Collagen-Based Gel with Antimicrobial Activity from Leather Waste
- 14:05 14:10
- Olga IUNGIN, Prekrasna IEVGENIIA, Bortyanuy IHOR, Valeriia MASLAK, Saulius MICKEVIČIUS 14:10 - 14:15

Plant Growth-Promoting Characteristics of Antarctic Endophytic Bacteria



AN INTERNATIONAL IMPLEMENTATION AS INTERACTION OF RESEARCH, PRACTICE, AND CURRENT EUROPEAN GREEN DEAL

MUSEION IoT-BASED SYSTEM FOR UNDERSTANDING AND CONTROLLING THE ENVIRONMENTAL QUALITY IN MUSEUMS

WORKSHOP

This Workshop is organised within the Eureka project E!13370 loT-based system for monitoring museum environment supported by a grant of the Ministry of Research, Innovation and Digitization, CNCS/CCCDI – UEFISCDI, project number PN-III-P3-3.5-EUK-2019-0211, within PNCDI III.

WORKSHOP PROGRAM

26 October 2022 Bucharest, Romania

Partners



National Research & Development Institute for Textiles and Leather (INCDTP), Bucharest, Romania



Division Leather & Footwear Research Institute (ICPI) Bucharest, Romania



9th International Conference on Advanced Materials and Systems



National Museum of Romanian Literature, Bucharest, Romania



BEIA Research, Bucharest, Romania



Seacon Europe, Székesfehérvár, Hungary

Wednesday, October 26th 2022

15:00	WELCOME
15:00 – 15:15	Cristina BALACEANU (Beia Consult), Elena BADEA (ARCH Lab, INCDTP-ICPI), Zsolt VINICZAY (Seacon Europe) Presentation of the Project: State of the Art, Objectives, Partnerships
15:15 – 15:30	Elena BADEA (ARCH Lab, INCDTP-ICPI) Presentation of the Characteristics of the Collection of the Memorial Houses "Ion Minulescu" and "Liviu Rebreanu" of the National Museum of Romanian Literature, and Their Peculiar Environmental Requirements
15:30 – 15:45	Cristina BALACEANU, George SUCIU (Beia Consult) Technical Aspects of the System Implemented in the MUSEION Project
15:45 – 16:00	Cristina CARSOTE (ARCH Lab, INCDTP-ICPI) Key Risk Indicators (KRI) Concept and Indoor Air Quality Index (IAQ index) Calculation
16:00 – 16:15	Zóra BARTA (Seacon Europe) Supporting IAQ Analysis and Visualization Based on Real Measurements
16:15 – 16:30	Coffee Break
16:30 – 17:00	Discussion
17:00 – 17:30	Feedback Survey Questions Addressed to the Museum Professionals

10:00

10:55	Chairs: Minodora Maria MARIN, Rodica Roxana CONSTANTINESCU	
	INVITED LECTURE	
10:00 – 10:20	Ana Francisca BETTENCOURT Multifunctional Advanced Drug Delivery Systems: From Nano to Macro PRESENTATIONS	
10:20 – 10:25	Olga SHYDLOVSKA, <u>Yulia KHMELNYTSKA</u> L. Lactis Bacteriophages and Methods of their Elimination from Dairy Products	
10:25 – 10:30	Ömer KONUŞKAN, Durmuş Alpaslan KAYA The Effect of Different Sowing Times on Corn Silk Tea	
10:30 – 10:35	Ovidiu IORDACHE, Elena-Cornelia TANASESCU, Elena PERDUM, Lucia SECAREANU, Mihaela-Cristina LITE, Irina-Mariana SANDULACHE Antimicrobial Activity of FIR Functionalized Textile Materials against Pathogenic Fungi Strains	
10:35 – 10:40	Ovidiu IORDACHE, Ioana-Corina MOGA, Elena-Cornelia TANASESCU, Elena PERDUM, Lucia SECAREANU, Mihaela-Cristina LITE, Irina-Mariana SANDULACHE, Elena-Laura TROANCA Reduction of Residual Tannins Concentration using Cerioporus squamosus Bio-Augmented Polymeric Carriers	
10:40 – 10:45	Rodica Roxana CONSTANTINESCU, Mariana FERDES, Madalina IGNAT, Ciprian CHELARU, Ana-Maria CIOBANU, Denis-Andrei DRUSAN Isolation and Characterization of Bacterial Protease Enzyme of Leather Waste	
10:45 – 10:50	Yelda GÜZEL, Durmuş Alpaslan KAYA, Musa TÜRKMEN Comparison of Aerial Parts Essential Oils of Purple and White Flowered Vitex Agnus-Castus (Lamiaceae) Populations	
10:50 – 10:55	<u>Yelda GÜZEL</u> , Durmuş Alpaslan KAYA, Musa TÜRKMEN <u>Essential Oil Composition of Teucrium montbretii</u> Subsp. Montbretii Benth. (Lamiaceae)	
10:55 - 11:00	SHORT BREAK	

TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES - PART 2

11:00

12.15

12:15	Chairs: Mădălina IGNAT, Ciprian CHELARU
	INVITED LECTURE
11:00 – 11:20	Viorica ROSCULET, Laurentia ALEXANDRESCU
11.00 11.20	Quality Management in Leather and Footwear Research Institute (ICPI)
	PRESENTATIONS
	Adrian SALISTEAN, Doina TOMA, Mihaela JOMIR, Ionela BADEA
11:20 – 11:25	The Development of a Small-Scale PPG-UAV for Emergency Response
	Actions Emrah AY, Nizami DURAN
11:25 – 11:30	Resistance of SARS CoV-2 to Seawater
11:30 – 11:35	Emrah AY, Nizami DURAN
11:30 – 11:33	Synergistic Efficacy of Eucalyptol with Acyclovir against HSV-2
	Durairaj DHANAPAL, Sitawala MUNDIA
11:35 – 11:40	Footwear Industry Leather Cutting Issues and Recommendation of Wastage
	Minimization Research Innovative Techniques Doina TOMA, Adrian SALISTEAN, Georgeta POPESCU, Sabina OLARU,
	Ionela BADEA
11:40 – 11:45	A New Modular Solution of Personnel Protective Equipment for the
	Emergency Responders
11:45 – 11:50	Elif YAPRAK, Nizami DURAN
11110 11100	Activity of Oleic Acid on Biofilm Formation of S. aureus
11:50 – 11:55	Erhan TEK, Nizami DURAN Efficacy of Capsaicin on Cell Adhesion and Invasion of Oral Pathogens
	Fulya ADIGÜZEL, Cemile Ceren TOSUN, Gökhan ZENGIN, Arife Candaş
11:55 – 12:00	ADIGÜZEL ZENGIN
11:55 – 12:00	Grain Characteristics Comparison of Different Types of Shoe Upper
	Leathers
	Georgeta POPESCU, Doina TOMA, Claudia NICULESCU, Alina POPESCU,
12:00 – 12:05	Adrian SALISTEAN, Ionela BADEA, Minela NENECIU, Sara WECHSLER, Ionut Daniel ION, Mirela Greti PUIU, Cristina RAICAN
12.00 12.03	3D Virtual Prototyping of Functional Knitted Garments for Persons with
	Special Needs
	Gerda ŠLEKIENE, Renata BIŠKAUSKAITE, Viktoriia PLAVAN, <u>Virgilijus</u>
12:05 – 12:10	VALEIKA
	Neutralisation and Bating of Hide Unhaired Using Sodium Silicate and Sodium Sulphide
	Ilyos ISMATULLAEV, Jurabek ULUGMURATOV, Avaz KENJAEV, Khashim
12:10 – 12:15	BEGALIEV, Fazli AKYÜZ
	Investigation of the Process of Soaking when Processing Ostrich Skins
12:15 - 12:30	SHORT BREAK

TOPIC 3: INNOVATIVE SYSTEMS, TECHNOLOGIES AND QUALITY

MANAGEMENT

Chaine, Mădălina ICNAT Cinnian CHELADU

Thursday, October 27th 2022

12:30

13:10 - 14:00

12.30	QUALITY MANAGEMENT
	(CONTINUED)
13:10	
	Chairs: Mădălina IGNAT, Ciprian CHELARU
12:30 – 12:35	Liliia CHERTENKO, Dariia KAPTIUROVA, Olexander BONDAR
12.30 – 12.33	Improving the Footwear Ergonomics by Personalizing iTs Shape
	Nataliia PERVAIA, Olga ANDREYEVA, Natalia BORSCHEVSKA, Tymofii
12:35 - 12:40	LYPSKYI
	Laser Finishing in the Decoration of Leather Products
12:40 – 12:45	Nizami DURAN
12.40 - 12.43	New Approaches to the Treatment of Drug-Resistant Bacteria
12:45 – 12:50	Nizami DURAN
12.45 – 12.50	New Formulation Effective against SARS COV-2 and H1N1
12:50 – 12:55	Renata BIŠKAUSKAITE, Virgilijus VALEIKA
12.30 – 12.33	Effect of Enzymatic Bating on Wet Blue Leather Properties
	Sebastian SBIRNA, Simona SBIRNA
12:55 - 13:00	Accomplishing and Optimizing Robotic Self-Navigation Intelligence for
	Warehouse Logistics through Sensor Fusion and Antenna Localization
	Sebastian SBIRNA, Simona SBIRNA
13:00 - 13:05	Technical and Hardware Implementation of a Modular TMS Prototype
	System by Using Data Modeling, Sensor Computing and Warning Systems
	Sultan ÇIVI, Anil ÖZÇELIK, Eser EKE BAYRAMOGLU
13:05 - 13:10	The Effects of Different Lacquers Used in Finishing on Leather Color
	Change

TOPIC 3: INNOVATIVE SYSTEMS, TECHNOLOGIES AND

OHALITY MANACEMENT

SHORT BREAK

14:00

15:25	Chairs: Mihaela NITUICA (VILSAN), Mihai GEORGESCU	
INVITED LECTURE		
	Enrica VESCE, Rosalia Stella EVOLA, Carlo INGRAO	
14:00 - 14:20	Assessment and Life Cycle Costing as Decision-Making Tools for a Suitable	
	Leather Industry	
	PRESENTATIONS	
	Ciprian CHELARU, Madalina IGNAT, Rodica Roxana CONSTANTINESCU,	
14:20 - 14:25	Ana-Maria CIOBANU, Denis-Andrei DRUSAN, Virginia BURGHELEA	
	Decorative Plates from Epoxydic Composites	
	Claudia Monica DUMITRA, Laurentia ALEXANDRESCU, Mirela PANTAZI-	
14:25 - 14:30	BAJENARU, Dana Corina DESELNICU, Augustin SEMENESCU	
	Leather Industry in Romania - An Overview	
	Cristina SECAN, Sunhilde CUC	
14:30 - 14:35	Aspects Regarding the Physiological and Comfort Parameters in Shoes	
	Made of Leather Substitutes	
	Doina CONSTANTINESCU, Bogdan BOATA, Mihaela IORDACHE, Maria	
14:35 – 14:40	Daniela STELESCU, Mihai GEORGESCU, Maria SONMEZ	
14.33 – 14.40	Technological Considerations Regarding the Mechanical Recycling of Waste	
	from Polyethylene and Polypropylene Packaging	
	Mihaela-Doina NICULESCU, Brandusa Georgiana DUMITRIU, Madalina	
14:40 – 14:45	IGNAT, Simona SAVIN, Cosmin Andrei ALEXE, Gabriela PAUN	
	Protein Composites from Collagen By-Products for Safe Use in Circular Economy	
	Gheorghe LAZAROIU, Lucian MIHAIESCU, Gabriel-Paul NEGREANU, Ionel	
14:45 – 14:50	PISA, Rodica Manuela GRIGORIU, <u>Elena-Adriana JARCU</u>	
	Benefits of Hydrogen-Rich Gas (HRG) on Biomass Combustion	
	Performances	
14.50 14.55	Maria Daniela STELESCU, Mihaela NITUICA (VILSAN), Mihai	
14:50 – 14:55	GEORGESCU, Dana GURAU, Laurentia ALEXANDRESCU, Maria SONMEZ	
	Behaviour of Nitrile Rubber-Based Mixtures to Composting Tests	
	Maria José FERREIRA, Vera V. PINTO, Patricia COSTA, Albano	
14:55 – 15:00	FERNANDES, Tiago MACHADO	
1	Strategies to Make Footwear Sustainable and Circular: A New Walk	
	Towards the European Green Rules	
	Mariana Daniela BERECHET, Demetra SIMION, Maria STANCA, Cosmin	
15:00 – 15:05	Andrei ALEXE	

Protein Extracts from Fish Head as Natural Fertilizer for Corn Plants

TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND

NEUTRAL ECONOMY

14:00	NEUTRAL ECONOMY
	(CONTINUED)
15:25	· · · · · · · · · · · · · · · · · · ·
	Chairs: Mihaela NITUICA (VILSAN), Mihai GEORGESCU
15:05 – 15:10	Maryna ROHOVA, Vladyslav KOVALENKO, Volodymyr TKACHENKO, Inna LYCH, <u>Iryna VOLOSHYNA</u> Green Biosynthesis of Zinc Nanoparticles
15:10 – 15:15	Sengoda Gounder RAJAMANI, Arnold MULDER Ecological Friendly Production Process and Waste Treatment for Circular Economy in Leather Tanning Industries
15:15 – 15:20	Mihaela NITUICA (VILSAN), Maria SONMEZ, Maria Daniela STELESCU, Laurentia ALEXANDRESCU, Mihai GEORGESCU, Ciprian CHELARU, Denis-Andrei DRUSAN, Ana-Maria CIOBANU, Dana GURAU Obtaining and Characterizing a Polymer Compound Based on NBR Elastomer and Functionalized Post-Consumer Rubber Waste
15:20 – 15:25	Mirela PANTAZI-BAJENARU, Mihai GEORGESCU, Laurentia ALEXANDRESCU, Dana GURAU Making Footwear Based on Circular Economy – REWEART

TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND

Friday, October 28th 2022

10:00

11:15

INVITED LECTURE		
10:00 – 10:20	<u>Cristina CARSOTE</u> , Elena BADEA, Noemi PROIETTI, Valeria Di TULLIO, Sebestyen ZOLTAN, Zsuzanna CZEGENY Leather and Parchment Making and Their Preservation over Millennia – Enhanced Data by Analytical Methods Coupling	
	PRESENTATIONS	
10:20 - 10:25	Muhammad Naimul HASAN, Anower Jahan TAMANNA, Md. Armanul HAQUE Divergence of Upper Materials to Specific Footwear Construction: Seeking a Culture of Sustainable Material Solicitation	
10:25 – 10:30	Elena-Cornelia TANASESCU, Mihaela-Cristina LITE, Elena PERDUM, Lucia Oana SECAREANU, Ovidiu IORDACHE, Irina-Mariana SANDULACHE, Lucian Gabriel RADU Overview on the New Generation of Extraction Technique: Fabric Solid-Phase Extraction	
10:30 – 10:35	Lucretia MIU, Ioana Lidia ILEA, Rodica Roxana CONSTANTINESCU, Madalina IGNAT, Nicolae CATRINA, Marcel IONESCU, Doina CREANGA, Emanuel VACALIE Case Study – Basement of the National Museum of Cotroceni	
10:35 – 10:40	Maryna LESHCHYSHYN, Antonia BABYCH, Victoria KERNESH Shaping the Range of Footwear in Different Materials According to a Person's Psycho-Type	
10:40 – 10:45	Maryna LESHCHYSHYN, Antonia BABYCH, Victoria KERNESH, Polina BILOUS Use of Creative Methods and Untypical Materials in the Design of Fashion Industry Products	
10:45 – 10:50	Olga NICULESCU, Elena BADEA, Ilaria QUARATESI, Rodica Roxana CONSTANTINESCU, <u>Dana GURAU</u> Materials for Surface Design and Finishing for Contemporary Footwear-Part 1	
10:50 – 10:55	Olga NICULESCU, Elena BADEA, Ilaria QUARATESI, Rodica Roxana CONSTANTINESCU, <u>Dana GURAU</u> Materials for Surface Design and Finishing for Contemporary Footwear-Part 2	
10:55 – 11:00	Wehandaka PANCAPALAGA, JAMROJI, Tutik SULISTYOWATI, Harinni. A RIRIN, Rini Pebri UTARI, Khoirul Fuddin MUHAMMAD, Achmad ROBERTH, Fathoni RINALDY, Endang Sri HARTAT, Asmah HIDAYATI Eco-Printing Leather Quality in Different Mordant Methods	

TOPIC 5: CREATIVE INDUSTRIES AND CULTURAL

HERITAGE

Chairs: Elena BADEA, Ilaria OUARATESI

Friday, October 28th 2022

11:00	TOPIC 6: EDUCATION AND DIGITALIZATION
11:15	Chair: Dana GURAU
11:00 – 11:05	Ion Razvan RADULESCU, Emilia VISILEANU, Razvan SCARLAT, Marian Catalin GROSU, Ana DIAS, Benny MALENGIER, Zoran STJEPANOVIC, Mirela BLAGA, Radek POLANSKY Impact of Intensive Study Programs on Higher Education Students in the Field of Design and Modelling of Textile Materials
11:05 – 11:10	Marian Catalin GROSU, Ion Razvan RADULESCU, Emilia VISILEANU, Irina IONESCU, Manuela AVADANEI, Sabina OLARU, Xianyi ZENG, Sheila ODHIAMBO Analysis of the Learning Requirements of Less Advantaged Groups on the Romanian Level
11:10 – 11:15	Raluca Maria AILENI, Elena Cristina STROE Smart Textiles Digitalization Using Creative Methods
11:15 – 11:30	CLOSING CEREMONY

PARTNERS:



LEATHER
ENGINEERING
DEPARTMENT
EGE UNIVERSITY,
TURKEY



MUSTAFA KEMAL UNIVERSITY, TURKEY



CHINA LEATHER & FOOTWEAR
RESEARCH INSTITUTE Co. Ltd.,
CHINA



"POLITEHNICA" UNIVERSITY BUCHAREST. ROMANIA



"GH. ASACHI"
TECHNICAL UNIVERSITY
OF IASI, ROMANIA



BUCHAREST ACADEMY OF ECONOMIC STUDIES, ROMANIA



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ROMANIAN ENTITY
WITHIN INNOVATION
& LEATHER
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