ORGANIZED BY:

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







ICAMS 2020

ADVANCED MATERIALS AND SYSTEMS

Programme of the 8th International Conference

October 1st - 3rd, 2020

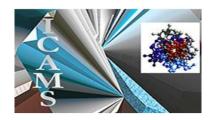
Online Event





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

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



ICAMS 2020

8th International Conference on Advanced Materials and Systems

CONFERENCE PROGRAM

01-03 October 2020 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





East Siberia State University of Technology & Management, Ulan-Ude, Russia



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



"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



Romanian Leather & Fur Producers Association





FOREWORD

ICAMS 2020 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 2020 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 01-03 October 2020. ICAMS 2020 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.

Participants will virtually attend the event from several academic and research institutions, public and private sectors. Participants will present their experience on research, innovation, policies and the creation of synergies. All these inputs will 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, partners and all the sponsors 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.

EDITORS,

Dr. Gheorghe COARĂ

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

Dr. Laurentia ALEXANDRESCU

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

Laurentia ALEXANDRESCU INCOTP-ICPL RO Carmen GHITULEASA INCDTP. RO Gheorghe COARĂ INCDTP-ICPI, RO Alina POPESCU INCDTP. RO Arife Candas ADIGUZEL ZENGIN Ege University, Izmir, TR Mădălina Georgiana ALBU ΚΔΥΔ INCDTP-ICPL RO Carmen ARIAS CASTELLANO General Secretary, CEC, BE Anna BACARDIT University of Lleida, ES Elena BADEA University of Craiova and INCDTP-ICPI, RO Bahri BASARAN Ege University, Izmir, TR Behzat Oral BITLISLI. Ege University, Izmir, TR Cristina CARSOTE National Museum of Romanian History, RO Nizami DURAN Mustafa Kemal University, Antakya, TR Maria José FERREIRA

Carmen GAIDĂU INCDTP-ICPL RO Mihaela GHICA "Carol Davila" Univ. of Medicine&Pharmacy, RO Gustavo GONZALEZ-OUIJANO Secretary General COTANCE BE Gurbuz GULUMSER Ege University, Izmir, TR Husevin Ata KARAVANA Ege University, Izmir, TR Alpaslan KAYA Mustafa Kemal University. Antakya, TR Karel KOLOMAZNIK Tomas Bata University, Zlin. CZJeannette LUCEJKO University of Pisa, IT Jianzhong MA Shaanxi University of Science and Technology, CN Stelian MAIER "Gheorghe Asachi" Technical Univ. of Iasi, RO Minodora MARIN INCDTP-ICPI, RO Alcino MARTINHO CTIC, PT Aurelia MEGHEA "Politehnica" University Bucharest, RO

Aura MIHAI

Lucretia MIU

"Gheorghe Asachi"

INCDTP-ICPI, RO

Technical Univ. of Iasi, RO

Olena MOKROUSOVA Kviv National University of Technologies and Design.UA Zenovia MOLDOVAN University of Bucharest, RO Enrique MONTIEL PARREÑO Vesica Piscis Footwear ES Mehmet Mete MUTLU Ege University, Izmir, TR Georgios PANAGIARIS Technological Education Institute GR Mirela PANTAZI INCDTP-ICPL RO Dimosthenis PAPAKONSTANTINOU CRE THI DEV. GR Vera PINTO CTCP PT Victoriva PLAVAN Kiev Nat. Univ. of Techn&Design, UA Dmitriv SHALBUEV East Siberia State Univ. of Techn. & Manag., RU Maria SÖNMEZ INCDTP-ICPI, RO Paul STĂNESCU "Politehnica" University Bucharest, RO Keyong TANG Zhengzhou University,CN Irina TITORENCU "N. Simionescu" I.C.B.P..RO Jin ZHOU Sichuan University, CN

ORGANIZING

Dr. Laurenția ALEXANDRESCU, Chair

Scientific Secretary, INCDTP - Leather and Footwear Research Institute Division, RO

Dr. Gheorghe COARĂ, Co-Chair

"Politehnica" University

CTCP, PT

Bucharest, RO

Margareta FLORESCU

Bucharest Academy of Economic Studies, RO

Anton FICAI

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

Dr. Carmen GHIŢULEASA, Co-Chair

General Director, National Research and Development Institute for Textiles and Leather, RO Dana GURĂU, INCDTP - ICPI, RO
Ioana PIVNICERU, INCDTP - ICPI, RO
Ciprian CHELARU, INCDTP - ICPI, RO
Mihai GEORGESCU, INCDTP - ICPI, RO
Elena NINCIULEANU, INCDTP - ICPI, RO
Dan VICOVAN, INCDTP - ICPI, RO

Short Program

Thursday, October 1st 2020		
09:00-09:30	OPENING CEREMONY	
09:30-10:30	PLENARY SESSION	
10:30-10:40	SHORT BREAK	
10:40-13:30	Presentations / Questions & Answers TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS	
13:30-14:00	BREAK	
14:00-16:40	Presentations / Questions & Answers TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES	
16:40-16:50	SHORT BREAK	
16:50-18:10	Presentations / Questions & Answers TOPIC 3: INNOVATIVE SYSTEMS, TECHNOLOGIES AND QUALITY MANAGEMENT - Part 1	
Friday, October 2	2 nd 2020	
09:00-11:00	Presentations / Questions & Answers TOPIC 3: INNOVATIVE SYSTEMS, TECHNOLOGIES AND QUALITY MANAGEMENT - Part 2	
11:00-11:10	SHORT BREAK	
11:10-13:40	Presentations / Questions & Answers TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND NEUTRAL ECONOMY	
13:40-14:10	BREAK	
14:10-16:50	Presentations / Questions & Answers TOPIC 5: CREATIVE INDUSTRIES AND CULTURAL HERITAGE	
16:50-17:00	SHORT BREAK	
17:00-17:50	Presentations / Questions & Answers TOPIC 6: EDUCATION AND DIGITALIZATION	
Saturday, Octobe	er 3 rd 2020	
09:00-10:00	Presentations/ Questions & Answers TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS	
10:00-11:50	Presentations /Questions & Answers TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES	
11:50-12:00	SHORT BREAK	
12:00-13:50	Presentations/ Questions & Answers TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND NEUTRAL ECONOMY	
13:50-14:20	CLOSING CEREMONY	

11:30-11:40

OPENING CEREMONY	
09:00-09:30	Dr. eng. Carmen GHIŢULEASA, INCDTP Romania
09:30-10:30	PLENARY SESSION
09:30-10:00	Key lecturer Gheorghe BOSTACA, APPBR Romania SER 2020 - A comparative approach proving the EU tanning industry's continuous striving towards sustainable development
10:00-10:30	Key lecturer Anton FICAI, UPB Romania Chemical surface modification and nanotechnological approaches in designing composite materials
10:30-10:40	SHORT BREAK
10:40-13:30	TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS Chairs: Carmen GAIDĂU, Mihaela-Doina NICULESCU
10:40-10:50	Ovidiu IORDACHE, Elena Cornelia MITRAN, Irina SANDULACHE, Maria MEMECICA, Lucia Oana SECAREANU, Cristina LITE, Elena PERDUM An overview on far-infrared functional textile materials
10:50-11:00	Ion DURBACĂ, Radu IATAN, Elena SURDU, <u>Dana-Claudia FARCAŞ-FLAMAROPOL</u> Approaches to the evaluation of the mechanical properties of single-layer composite plates made of recyclable polymeric and protein materials
11:00-11:10	Laura CHIRILA, Alina POPESCU, Sabina OLARU, Angela DANILA, Rodica Roxana CONSTANTINESCU, <u>Andreea TIGAU</u> Bioactive textiles obtained by applying cinnamon essential oil-based emulsions
11:10-11:20	Laura CHIRILA, Marcela Corina ROSU, Sabina OLARU, Cristian TUDORAN, Dragos-Viorel COSMA, Alexandra URDA, Alice-Ortansa MATEESCU, Gheorghe MATEESCU, Georgiana VASILE Cotton fabrics coated with Ag-TiO ₂ and Ag-TiO ₂ /reduced graphene oxide nanocomposites
11:20-11:30	Carmen MIHAI, Madalina Alice RUS, Alexandra Gabriela ENE, Razvan SCARLAT Digital construction of the signaling/ rescue system located in coastal aquatic areas

<u>Petruta PREDA</u>, Bianca TINCU, Marioara AVRAM, Ioana TUTUNARU, Iuliana MIHALACHE, Ana-Maria ENCIU, Cristina PACHIU, Anton FICAI

Investigation of the single layer graphene film functionalized with 1-

pyrenebutyric acid for use in biomedical application

10:40-13:30	TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS (CONTINUED)
	Chairs: Carmen GAIDĂU, Mihaela-Doina NICULESCU
11:40-11:50	Raluca Maria AILENI, Laura CHIRIAC, Irina SANDULACHE Perspective in using chitosan films for sensors
11:50-12:00	 Durairaj DHANAPAL, Bahiru MELESE, Liya SHAWEL, Kumaravel SANMUGAM Research comparison of foot plantar pressure on polyurethane visco elastic foam insole and EVA insole materials
12:00-12:10	Maryna LESHCHYSHYN MYKOLAIVNA, Svitlana Stepanivna HARKAVENKO, Antonina Ivanivna BABICH Studying the similarities of deformation properties of leather materials in the process of creating a model of shoes
12:10-12:20	Marius-George PARVAN, Georgeta VOICU, Alina-Ioana BADANOIU, Victor OPRISAN FRUTH Self-sensing piezoresistive composites based on cement incorporating low dosage of carbon black used as multifunctional construction materials
12:20-12:30	Ana-Alexandra SORESCU, Alexandrina NUTA, Valentin RADITOIU, Rodica Mariana ION Silver nanoparticles from aqueous extracts: advanced materials for wastewater treatment
12:30-12:40	Maryna LESHCHYSHYN MYKOLAIVNA, Svitlana GARKAVENKO, Victoria KERNESH, Borys ZLOTENKO, Tetiana KULIK, Anastasia GLIONIK Transformation of art objects in the 3D design process of shoe parts
12:40-12:50	Anna BONDARYEVA, Olena MOKROUSOVA The acrylic/montmorillonite nanocomposites for leather finishing
12:50-13:00	Suresh ALUVIHARA, C.S. KALPAGE, P.W.S.K. BANDARANAYAKE The elementary characterization of Anthill Clay for composite materials
13:00-13:30	QUESTIONS AND ANSWERS
13:30-14:00	BREAK

14:00-16:20	TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES
	Chairs: Minodora Maria MARIN, Rodica Roxana CONSTANTINESCU
14:00-14:10	Ionut-Cristian RADU, Catalin ZAHARIA, Bianca GALATEANU, Horia IOVU, Anca HERMENEAN Biological assessment of silk fibroin-5 fluorouracil drug delivery formulations
14:10-14:20	Mariana FERDES, Rodica Roxana CONSTANTINESCU Biological pretreatment of waste from the leather industry to obtain biogas through anaerobic co-digestion processes - A review
14:20-14:30	Ovidiu IORDACHE, Ioana Corina MOGA, Elena Cornelia MITRAN, Irina SANDULACHE, Maria MEMECICA, Lucia Oana SECAREANU, Cristina LITE, Elena PERDUM BOD & COD reduction from textile wastewater using bio-augmented HDPE carriers
14:30-14:40	Lesia MAISTRENKO, Olga IUNGIN, Oleksii SAVCHUK, Olena OKHMAT Collagen matrices from leather industry wastes for biomedical application
14:40-14:50	Yılmaz EREN, Durmuş Alpaslan KAYA Determination of yield and yield components in different sowing times of black seed (<i>Nigella sativa</i> L.) in Hatay ecological conditions
14:50-15:00	Gresy GRIYANITASARI, Emiliana KASMUDJIASTUTI, Ragil YULIATMO, Mohammad Zainal ABIDIN Evaluation of combination tanning and natural finishing on sheep leather
15:00-15:10	with Uncaria Gambir Roxb extract Elena DĂNILĂ, Mădălina Georgiana ALBU KAYA, Mihaela Violeta GHICA, Ana-Maria BUNEA, Lăcrămioara POPA, Durmuş Alpaslan KAYA, Şevket ÖZTÜRK, Maria-Minodora MARIN, Cristina-Elena DINU-PÎRVU, Valentina ANUȚA Formulation and characterization of anti-aging cosmetic emulsions based on collagen hydrolysate and caffeine
15:10-15:20	<u>Darina ZHELEVA</u> , Margarita KOLEVA Influence of type of pre-hair treatment from different types of animal sources on the degree of hydrolysis of keratin
15:20-15:30	Mariana FERDEŞ, Rodica Roxana CONSTANTINESCU Isolation and characterization of fungal and bacterial proteolytic strains from chrome shavings
15:30-15:40	Maria-Roxana MARINESCU, Elena DAVID, Liviu-Daniel GHICULESCU Obtaining of high density carbon materials by coke sintering resulting from heat treatment of tar for applications in sensors manufacture
15:40:15:50	Durmuş Alpaslan KAYA, Filiz AYANOĞLU Oil glands number and oil glands diameters of <i>Thymbra spicata</i> var. <i>Spicata</i> L. leaves

14.00 16.20	TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES (CONTINUED)
14:00-16:20	Chairs: Minodora Maria MARIN, Rodica Roxana CONSTANTINESCU
15:50-16:00	Maria-Cristina ANICESCU, Cristina-Elena DINU-PÎRVU, Mihaela Violeta GHICA, Valentina ANUȚA, Răzvan Mihai PRISADA, <u>Marina-Theodora TALIANU</u> , Lăcrămioara POPA Preliminary analysis of emulsion-based formulations containing pumpkin seed oil and hemp seed oil for internal use
16:00-16:10	Meryem KARAÇAM, Durmuş Alpaslan KAYA The effect of some essential oils on pathogenes that cause eczema
16:10-16:20	Kazim MAVİ, Durmuş Alpaslan KAYA, Musa TÜRKMEN, Filiz AYANOĞLU The variation of essential oil and carvacrol contents of native grown <i>Thymbra Spicata</i> var. <i>Spicata</i> L.
16:20-16:40	QUESTIONS AND ANSWERS
16:40-16:50	SHORT BREAK
16:50-17:50	TOPIC 3: INNOVATIVE SYSTEMS, TECHNOLOGIES AND QUALITY MANAGEMENT - Part 1 Chairs: Viorica ROȘCULEȚ, Mădălina IGNAT
16:50-17:00	Ion DURBACĂ, Nicoleta SPOREA, <u>Dana-Claudia FARCAŞ-FLAMAROPOL</u> , Elena SURDU Application of the "SIX SIGMA" method for the analysis of the improvement of the environmental air quality parameters at the municipality of Bucharest, by monitoring the pollutances of NO _X pollutants
17:00-17:10	Alaa OTHMAN, Ahmed DABEES, Baher RAHMA, Matjaz KNEZ Factors influencing the purchasing decisions of low emission cars: comparing study between Egypt and Slovenia
17:10-17:20	Jilan KESHTA, Hebatallah ELMESMARY, Matevž OBRECHT Investigating the impact of COVID-19 on maritime supply chain sustainability and technology: a review
17:20-17:30	Engy BAYOUMI, Sara ELGAZZAR, Matevz OBRECHT Investigating the impact of Internet of Things on Egyptian ports sustainability
17:30-17:40	Alexandra LUCA, Alina Iovan DRAGOMIR Quality management and footwear value chain. A case study of Fibalco
17:40-17:50	Anna BACARDIT, Sílvia SOROLLA, Concepció CASAS, Lluís OLLÉ, Mireia CONDE Synthesis of polyurethanes with low volatile organic compounds content for upholstery and automotive articles
17:50-18:10	QUESTIONS AND ANSWERS

Friday, October 2nd 2020

	TOPIC 3: INNOVATIVE SYSTEMS, TECHNOLOGIES AND QUALITY
09:00-10:40	MANAGEMENT (CONTINUED) - Part 2
07.00 10.10	
	Chairs: Viorica ROȘCULEȚ, Mădălina IGNAT
09:00-09:10	Jingjing LI, Jie ZENG, Keyu HOU, Jin ZHOU, Rui WANG
	Application of Openpose algorithm to detect consumer behavior in store
09:10-09:20	<u>Dana Corina DESELNICU</u> , Mihaela-Ramona BULBOACĂ, Dan DUMITRIU, Laurentia ALEXANDRESCU
09:10-09.20	Analysis of the bakery industry strategic groups in Romania
	Sandra Samy George HADDAD
09:20-09:30	Developing an E-Business system to improve the downstream
07.20 07.30	pharmaceutical supply chain (A study on the Egyptian market)
	Nermin GOHAR, Hany HANNA, Mai.H. HAROUN
09:30-09:40	Factors affecting startups survival in the MENA region in the presence of
	COVID19
	Vera RADNAEVA, Dmitry SHALBUEV, Nikolay SOVETKIN, Khurelsukh
00.40.00.50	GAANBAATAR, Solongo KHOSBAYAR, Suvda DASHDORJ, Victoriy
09:40-09:50	ALEKHINA
	Horse paws as raw material for fur industry
	Sengoda Gounder RAJAMANI
09:50-10:00	Innovative ecological processes with recovery of chemicals and water for
	reuse in leather sector - an economical and sustainable approach
	Keyu HOU, Shunxun LI, Jingjing LI, Wei XU, Rui WANG, Jin ZHOU
10:00-10:10	Research on consumer portraits of offline fast fashion shoe stores based on
	IoT smart hardware
	Mahmoud BARAKAT, Ahmed ALI, Islam ABDELBARY, Mai HAROUN
10:10-10:20	The impact of supply chain integration on operational performance through
	resilience under COVID-19 pandemic
10.20 10.20	Islam Saleh HASSANIN The role of Internet of Things on intelligent transport system. A traffic
10:20-10:30	The role of Internet of Things on intelligent transport system: A traffic
	optimization model Adrian SALISTEAN, Carmen MIHAI, Doina TOMA, Sabina OLARU
10:30-10:40	Theoretical and practical aspects of the design phase for a single skin textile
	wing
10.40 11.00	QUESTIONS AND ANSWERS
10:40-11:00	QODOTTOTIO TELESTICA
11:00-11:10	SHORT BREAK
11:00-11.10	
	TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND NEUTRAL
11:10-13:20	ECONOMY
	Chairs: Dana GURĂU, Mihai GEORGESCU
11 10 11 20	Sabina OLARU, Ionela BADEA
11:10-11:20	Circular product design assessment applied to clothing products
	Circular product design assessment applied to coming products

Friday, October 2nd 2020

11:10-13:20	TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND NEUTRAL ECONOMY (CONTINUED) Chairs: Dana GURĂU, Mihai GEORGESCU
11:20-11:30	Karolis KUBILIUS, Violeta VALEIKIENE, <u>Virgilijus VALEIKA</u> Collagen hydrolysate from chromed shavings for leather finish
11:30-11:40	Gheorghe LAZAROIU, <u>Dana-Alexandra CIUPAGEANU</u> , Lucian MIHAESCU, Rodica-Manuela GRIGORIU Comparative analysis of carbon dioxide methanation technologies for low carbon society development
11:40-11:50	Dana Corina DESELNICU, <u>Beatrice Alexandra ALEXANDRESCU</u> Comparative analysis of sustainable development indicators at E.U. and Romanian level
11:50-12:00	Ion Razvan RADULESCU, Emilia VISILEANU, Razvan SCARLAT, Bogdana MITU Comparative life cycle assessment study for fabric based electromagnetic shielding
12:00-12:10	Hany HANNA, Paul XIROUCHAKIS, Athanasios RENTIZELAS Developing integrated green supply chain drivers and barriers framework for green supply chain adoption, Mena region
12:10-12:20	Gheorghe LAZAROIU, Lucian MIHAESCU, Rodica-Manuela GRIGORIU, Dana-Alexandra CIUPAGEANU, Iulia SIMION Efficient poultry industry waste management approach in the bioeconomy framework
12:20-12:30	<u>Teodor SÂRBU</u> , Angela DOROGAN, Cristina GROSU, Cristina Elena STROE Innovative tool for the circular design of technical textiles
12:30-12:40	Maria José FERREIRA, Vera V. PINTO, Patrícia COSTA LIFE GREENSHOES4ALL – Footwear environmental footprint
12:40-12:50	Carlos RUZAFA-SILVESTRE, Pilar CARBONELL-BLASCO, Elena ORGILÉS-CALPENA, Francisca ARÁN AÍS Low-pressure plasma treatment applied to polymeric materials for a sustainable footwear industry
12:50:13:00	Olga BALLUS, Anna BACARDIT Sustainable products in the leather industry
13:00-13:10	Auksė ŠLIBURYTĖ, <u>Virgilijus VALEIKA</u> Treatment of hide liming wastewater by carbon dioxide
13:10-13:20	Mircea Constantin OPRIȘ, Dana Corina DESELNICU Wool processing outcomes and opportunities
13:20-13:40	QUESTIONS AND ANSWERS
13:40-14:10	BREAK

14:10-16:30

Friday, October 2nd 2020

14:10-16:30	Chairs: Elena BADEA, Claudiu ŞENDREA
14:10-14:20	Lucreția MIU, Rodica Roxana CONSTANTINESCU, Alpaslan Durmuş KAYA, Emanuel HADIMBU, <u>Claudiu ŞENDREA</u> , Maria-Cristina LUPAŞ, Simona Maria PĂUNESCU, Iulia Maria CANIOLA, Elena BADEA Aspects regarding the effectiveness of volatile oils of the <i>Tanacetum vulgare</i> kind in the conservation of heritage objects
14:20-14:30	<u>Iulia-Maria CANIOLA</u> , Cristina CARSOTE, Simona-Maria PĂUNESCU, Maria-Cristina MICU, Elena BADEA A glimpse into the past: the investigation of a XVII century parchment document from the National Museum of Romanian History
14:30-14:40	Lucreția MIU, <u>Simona-Maria PĂUNESCU</u> , Maria-Cristina MICU, Iulia-Maria CANIOLA, Madalina IGNAT, Claudiu ȘENDREA, Elena BADEA Chemical and physico-mechanical characterizations of leather for restoration
14:40-14:50	Lucreția MIU, Mariana GIURGINCA, <u>Iulia-Maria CANIOLA</u> , Maria-Cristina MICU (LUPAȘ), Simona-Maria PĂUNESCU, Claudiu ȘENDREA, Elena BADEA Chromatic assessment of newly manufactured leather and parchment for museum purposes
	• •
14:50-15:00	Mirela PANTAZI-BAJENARU, Traian FOIASI Design and manufacture of products with Romanian cultural identity
14:50-15:00 15:00-15:10	Mirela PANTAZI-BAJENARU, Traian FOIASI
	Mirela PANTAZI-BAJENARU, Traian FOIASI Design and manufacture of products with Romanian cultural identity Marlena POP
15:00-15:10	Mirela PANTAZI-BAJENARU, Traian FOIASI Design and manufacture of products with Romanian cultural identity Marlena POP Design thinking in product development - case study: leather library Irina SANDULACHE, Mihaela-Cristina LITE, Lucia-Oana SECAREANU, Elena-Cornelia MITRAN, Ovidiu IORDACHE, Elena PERDUM
15:00-15:10 15:10-15:20	Mirela PANTAZI-BAJENARU, Traian FOIASI Design and manufacture of products with Romanian cultural identity Marlena POP Design thinking in product development - case study: leather library Irina SANDULACHE, Mihaela-Cristina LITE, Lucia-Oana SECAREANU, Elena-Cornelia MITRAN, Ovidiu IORDACHE, Elena PERDUM Effects of UV, humidity, and high temperature exposure on linen fibers Traian FOIASI, Mirela PANTAZI-BAJENARU

TOPIC 5: CREATIVE INDUSTRIES AND CULTURAL HERITAGE

Friday, October 2nd 2020

TOPIC 5: CREATIVE INDUSTRIES AND CULTURAL HERITAGE

14:10-16:30

17:30-17:50

	Chairs: Elena BADEA, Claudiu ȘENDREA
15:50-16:00	Alina Iovan DRAGOMIR, Alexandra LUCA Product development of the leather good using Walton Walton's matrix
16:00-16:10	<u>Lucia-Oana SECAREANU</u> , Irina-Mariana SANDULACHE, Elena-Cornelia MITRAN, Mihaela-Cristina LITE, Adrian Alexandru APOSTOL, Ovidiu IORDACHE, Elena PERDUM Protocol for identification and assessment of natural and synthetic textile fibers
16:10-16:20	Mircea Constantin OPRIȘ, Dana Corina DESELNICU Start-up investment for a sheep wool processing line
16:20-16:30	Madalina IGNAT, Lucretia MIU, Emanuel HADIMBU, Claudiu ŞENDREA, Maria-Cristina MICU, Simona Maria PĂUNESCU, Iulia Maria CANIOLA, Elena BADEA The influence of TiO ₂ and N-TiO ₂ nanopowders in natural leather finishing for heritage or modern binding
16:30-16:40	Mahmoud A. HAMMAD, Sonja MLAKER KAČ, Sandra S. G. HADDAD, <u>Habiba S. EL ROUBY</u> Investigation of energy resources and gas discoveries in the Eastern
	Mediterranean region: the case of people's expectations and social impacts in Egypt
16:40-16:50	
16:40-16:50 16:50-17:00	in Egypt
	in Egypt QUESTIONS AND ANSWERS
16:50-17:00	QUESTIONS AND ANSWERS SHORT BREAK TOPIC 6: EDUCATION AND DIGITALIZATION
16:50-17:00 17:00-17:30	QUESTIONS AND ANSWERS SHORT BREAK TOPIC 6: EDUCATION AND DIGITALIZATION Chairs: Dana GURĂU, Ciprian CHELARU Raluca Maria AILENI, Laura CHIRIAC, Razvan Ion RADULESCU Fostering advanced textile centers through e-learning in Morocco and

QUESTIONS AND ANSWERS

(CONTINUED)

Saturday, October 3rd 2020

Chair: Dana GURĂU

CONSTANTINESCU

leather finishes

09:00-09:40

09:00-09:10

Presentations

Ciprian CHELARU, Madalina-Camelia IGNAT, Rodica Roxana

TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS

Comparative study of the surface properties for some different types of

	leather finishes	
09:10-09:20	Maria SÖNMEZ, Mircea JUGANARU, Anton FICAI, Denisa FICAI, Ovidiu OPREA, Dana GURAU, Laurentia ALEXANDRESCU, Maria Daniela STELESCU, Mihai GEORGESCU, Mihaela NITUICA, Alina MELINESCU, Minodora MARIN Dolomite surface modification with titanium and silicon precursors and its morphostructural and thermal characterisation	
09:20-09:30	Maria SÖNMEZ, Mircea JUGANARU, Anton FICAI, Ovidiu OPREA, Roxana TRUSCA, Mihai GEORGESCU, Dana GURAU, Denisa FICAI, Laurentia ALEXANDRESCU, Doina CONSTANTINESCU, Maria Daniela STELESCU, Mihaela NITUICA, Minodora MARIN Improvement of mechanical, thermal and morphostructural properties of SBS thermoplastic elastomer using kaolin and dolomite microparticles with modified surface	
09:30-09:40	Simona-Maria PAUNESCU, Emanuel HADIMBU, Iulia-Maria CANIOLA, Maria-Cristina MICU, Cristina CARSOTE, Claudiu SENDREA, Lucretia MIU, Elena BADEA Physical-chemical and morpho-structural characterization of modern alumtawed leather treated with various halloysite nanotubes dispersions	
09:40-10:00	QUESTIONS AND ANSWERS	
10:00-12:00	TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES Chair: Mihai GEORGESCU	
10:00-10:10	Mariana Daniela BERECHET, Demetra SIMION, Maria STANCA, Cosmin-Andrei ALEXE, Rodica Roxana CONSTANTINESCU, Maria RÂPĂ, Andreea ŢURCANU Antibacterial and antioxidant activities of lemon balm (<i>Melissa officinalis</i> L.) essential oil	
	essential on	

Saturday, October 3rd 2020

10:00-12:00	TOPIC 2: BIOMATERIALS AND BIOTECHNOLOGIES (CONTINUED)
	Chair: Mihai GEORGESCU
10:20-10:30	Mihaela-Doina NICULESCU, Cristina Emanuela ENASCUTA, Maria STANCA, Carmen Cornelia GAIDAU, Cosmin ALEXE, Mihai GIDEA, Marius BECHERITU Complexes based on collagen and keratin for applications in agriculture
10:30-10:40	Maria-Minodora MARIN, Mădălina Georgiana ALBU KAYA, Mihaela Violeta GHICA, Elena DĂNILĂ, Gheorghe COARĂ, Lăcrămioara POPA, Ciprian CHELARU, Durmuş Alpaslan KAYA, Valentina ANUȚA, Cristina-Elena DINU-PÎRVU, Ioan CRISTESCU Design and evaluation of doxycycline/collagen/chondroitin sulfate delivery systems used for cartilage regeneration
10:40-10:50	Olga NICULESCU, Carmen GAIDAU, Elena BADEA, Lucretia MIU, <u>Dana GURAU</u> , Mariana Daniela BERECHET Ecological approaches for protecting and perfuming natural sheepskin fur
10:50-11:00	<u>Ciprian CHELARU</u> , Madalina IGNAT, Minodora MARIN, Dana GURAU Natural polymers for microcapsules manufacture
11:00-11:10	Rodica Roxana CONSTANTINESCU, Gabriel ZAINESCU, Mariana FERDES Pelt waste degradation using active microbial consortia
11:10-11:20	Olga NICULESCU, Carmen GAIDAU, Elena BADEA, Lucretia MIU, <u>Dana GURAU</u> , Demetra SIMION Special effect finish for bookbinding leather
11:20-11:30	Mariana Daniela BERECHET, Demetra SIMION, Maria STANCA, Ciprian CHELARU, Cosmin-Andrei ALEXE, Maria RÂPĂ The influence of alkaline extraction on some keratin hydrolysates properties
11:30-11:40	Carmen GAIDAU, <u>Maria STANCA</u> , Demetra SIMION, Olga NICULESCU, Cosmin-Andrei ALEXE, Concepcio CASAS, Anna BACARDIT, Stoica TONEA, Gabriela PAUN Olipo-wet olive pomace, a new renewable source for leather retanning
11:40-11:50	QUESTIONS AND ANSWERS
11:50-12:00	SHORT BREAK
12:00-13:50	TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND NEUTRAL ECONOMY Chair: Ciprian CHELARU
12:00-12:10	Laurentia ALEXANDRESCU, Maria SONMEZ, Mihaela NITUICA, Maria Daniela STELESCU, Mihai GEORGESCU Biodegradable polymeric composites based on butadiene-co-acrylonitrile rubber and functionalized post-consumer elastomer waste

Saturday, October 3rd 2020

	TOPIC 4: ECOLOGICAL PROCESSES FOR CIRCULAR AND NEUTRAL
12:00-13:50	ECONOMY (CONTINUED)
	Chair: Ciprian CHELARU
	Mihaela (VILSAN) NITUICA, Laurentia ALEXANDRESCU, Mihai
12:10-12:20	GEORGESCU, Maria SONMEZ, Maria Daniela STELESCU, Dana GURAU,
	Carmen CURUTIU, Stefania STOLERIU
	Biodegradable polymeric composite based on EPDM rubber and functionalized elastomeric waste
	Mihaela (VILSAN) NITUICA, Laurentia ALEXANDRESCU, Mihai
	GEORGESCU, Maria SONMEZ, Maria Daniela STELESCU, Dana GURAU,
12:20-12:30	Carmen CURUTIU, Stefania STOLERIU
	Development and characterization of biodegradable compound based on EPDM and wood waste
	Laurentia ALEXANDRESCU, Mihai GEORGESCU, Maria SONMEZ, Mihaela
	NITUICA, Maria Daniela STELESCU
12:30-12:40	Development and characterization of biodegradable polymeric composites
	based on butadiene-co-acrylonitrile rubber and functionalized post-
	consumer wood waste
12:40-12:50	Maria Daniela STELESCU, Daniela Ioana CONSTANTIN, Maria SONMEZ, Laurentia ALEXANDRESCU, Mihaela NITUICA, Mihai GEORGESCU
12.40-12.30	Development of elasto-plastic eco-nano-materials for the footwear industry
	Mihai GEORGESCU, Maria SONMEZ, Laurentia ALEXANDRESCU, Mihaela
12:50-13:00	NITUICA, Maria Daniela STELESCU, Dana GURAU
	Designing and obtaining wood waste and chloroprene rubber-based composites
	Maria Daniela STELESCU, Mihai GEORGESCU, Maria SONMEZ, Mihaela
13:00-13:10	NITUICA, Adriana STEFAN
	Elastomeric nanomaterials based on natural rubber for the food industry
	Mihai GEORGESCU, Maria SONMEZ, Laurentia ALEXANDRESCU, Mihaela NITUICA, Maria Daniela STELESCU, Dana GURAU
13:10-13:20	Obtaining and characterisation of elastomeric waste and chloroprene
	rubber-based composites
	Mirela PANTAZI-BAJENARU, Enrique MONTIEL PARRENO, Traian
13:20-13:30	FOIASI, <u>Dana GURAU</u> REWEART - A 100% real circular economy manufacturing process for
	vegan-organic-recycled footwear
10.00 10.15	Rodica Roxana CONSTANTINESCU, Gabriel ZAINESCU
13:30-13:40	Smart biopolymers from protein wastes used in agriculture
13:40-13:50	QUESTIONS AND ANSWERS
13:50-14:20	CLOSING CEREMONY
13.30 11.20	

PARTNERS:



LEATHER
ENGINEERING
DEPARTMENT
EGE UNIVERSITY,
TURKEY



EAST SIBERIA STATE UNIVERSITY OF TECHNOLOGY & MANAGEMENT, ULAN-UDE, RUSSIA



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



ITA TEXCONF
ROMANIAN ENTITY
WITHIN INNOVATION
& LEATHER
TECHNOLOGICAL
TRANSFER



CONFEDERATION
OF NATIONAL
ASSOCIATIONS
OF TANNERS
AND DRESSERS
OF THE EUROPEAN
COMMUNITY



ROMANIAN LEATHER & FUR PRODUCERS ASSOCIATION



SFERA FACTOR
THE ROMANIAN
LEATHER
MANUFACTURERS
ORGANIZATION