ORGANIZED BY:

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

ICAMS 2026

ADVANCED MATERIALS AND SYSTEMS

Program of the 11th International Conference

October 8th - 9th, 2026

Online Event

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

ICAMS 2026

11th International Conference
on Advanced Materials and Systems

CONFERENCE PROGRAM

8-9 October 2026

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

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

FOREWORD

ICAMS 2026 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 dynamic and is recognized as a current national and European priority.

The ICAMS 2026 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 8-9 October 2026. ICAMS 2026 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 and Technologies**
- **Ecological Processes**
- **Circular and Neutral Economy**
- **Fashion, Tradition and Cultural Heritage**
- **Automation, Artificial Intelligence and Digitalization**
- **Quality Management and Marketing**

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.

On behalf of the Organizing Committee,

Dr. Laurenția ALEXANDRESCU

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

Dana GURĂU

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

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Short Program

Thursday, October 8th 2026	
10:00 - 10:10	OPENING CEREMONY
10:10 - 10:30	KEYNOTE SESSION
10:30 - 11:30	Oral presentations TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS
11:30 - 11:40	SHORT BREAK
11:40 - 12:30	Oral presentations TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS *(CONTINUED)*
12:30 - 13:00	LUNCH BREAK
13:00 - 14:20	Oral presentations TOPIC 2: INNOVATIVE SYSTEMS AND TECHNOLOGIES
14:20 - 14:30	SHORT BREAK
14:30 - 16:10	Oral presentations TOPIC 2: INNOVATIVE SYSTEMS AND TECHNOLOGIES *(CONTINUED)*
16:10 - 16:20	SHORT BREAK
16:20 - 17:10	Oral presentations TOPIC 3: FASHION, TRADITION AND CULTURAL HERITAGE

Friday, October 9th 2026	
10:00 - 11:20	Oral presentations TOPIC 4: BIOMATERIALS AND BIOTECHNOLOGIES
11:20 - 11:30	SHORT BREAK
11:30 - 12:40	Oral presentations TOPIC 4: BIOMATERIALS AND BIOTECHNOLOGIES *(CONTINUED)*
12:40 - 13:30	LUNCH BREAK
13:30 - 14:50	Oral presentations TOPIC 5: ECOLOGICAL PROCESSES & CIRCULAR AND NEUTRAL ECONOMY
14:50 - 15:00	SHORT BREAK
15:00 - 16:20	Oral presentations TOPIC 5: ECOLOGICAL PROCESSES & CIRCULAR AND NEUTRAL ECONOMY *(CONTINUED)*
16:20 - 16:30	SHORT BREAK
16:30 - 16:50	Oral presentations TOPIC 6: AUTOMATION, ARTIFICIAL INTELLIGENCE AND DIGITALIZATION
16:50 - 17:00	CLOSING CEREMONY

Thursday, October 8th 2026

OPENING CEREMONY	
10:00 - 10:10	Laurenția ALEXANDRESCU – Scientific Secretary, INCDTP-ICPI Dana GURĂU, INCDTP-ICPI
KEYNOTE SESSION	
10:10 - 10:30	Dr. S. RAJAMANI *Vice President, Indian Leather Technologists Association & Chairman, Asian International Union of Environment Commission, India* **Sustainable Technological Development in Leather Process and Effluent Treatment**
TOPIC 1: ADVANCED MATERIALS AND NANOMATERIALS ***Chairs: Dr. eng. Minodora MARIN & Dr. eng. Roxana CONSTANTINESCU***	
10:30 - 10:40	Osman ADIGUZEL **Memory Characteristics and Phase Transformations Governing Reversibility in Shape Memory Alloys**
10:40 - 10:50	Valentin BACIU, Octavian TABĂRĂ, Adrian MARIN, Raluca AILENI **A Review of Integrated Thermoelectric Configurations for Textile Applications**
10:50 - 11:00	Valentin BACIU, Octavian TABĂRĂ, Adrian MARIN, Raluca AILENI **A Review of Textile Sensors Used in Medical Rehabilitation**
11:00 - 11:10	Laura CHIRILĂ, Doina TOMA, Alina POPESCU, Demetra SIMION, Mihaela-Cristina LITE, Angela DĂNILĂ **Comparative Assessment of Binder Systems in Chitosan-Based Antibacterial Finishing of Cotton Fabrics**
11:10 - 11:20	Sultan ÇIVI, Elif Eser BAYRAMOĞLU, Deniz Arslan KALENDER **Investigation of the Utilization Potential of Extracts Obtained from Fig Tree (*Ficus carica* Bursa Karasi CV.) Pruning Wastes in Leather Tanning Processes**
11:20 - 11:30	Sultan ÇIVI, Elif Eser BAYRAMOĞLU **Research on the Evaluation of Olive Tree (*Olea europaea*) Pruning Wastes as a Tanning Agent**
11:30 - 11:40	**SHORT BREAK**
11:40 - 11:50	Olga HARANINA, Yana REDKO, Olga ANDREYEVA, Kyrylo VOROBIOV **Multilayer Footwear Insoles Based on Antibacterial Textile Materials: Hygienic and Functional Properties**
11:50 - 12:00	Adrian MARIN, Raluca AILENI, Valentin BACIU, Octavian TABĂRĂ, Laurențiu DINCĂ, Roxana CONSTANTINESCU **Comparative Morphological, Elemental, and Antibacterial Characterization of Untreated and Alginate-Based Zinc-Functionalized Cotton Textiles**

12:00 - 12:10	Yana REDKO, Nataliia HUDZENKO **Controlled Interfacial Organization of Conductive Coatings on Textile Substrates with Different Surface Morphology**
12:10 - 12:20	Demetra SIMION, Alina POPESCU, Laura CHIRILĂ, Carmen GAIDĂU, Gabriela PĂUN, Doina TOMA, Laurențiu DINCĂ, Roxana CONSTANTINESCU, Daniela BERECHET **Design of New Structured Bioemulsions with Applications in Functionalization of Textile Materials**
12:20 - 12:30	Darina ZHELEVA, Desislava S. ANGELOVA, Ekaterina KRUMOVA, Yana GOCHEVA **Inorganically Modified Biobased Insoles as an Alternative to Commercial Composite Materials for Footwear: Hygrothermal and Antibacterial Properties**
12:30 - 13:00	**LUNCH BREAK**
TOPIC 2: INNOVATIVE SYSTEMS AND TECHNOLOGIES ***Chairs: Dr. eng. Carmen GAIDĂU and Dr. eng. Demetra SIMION***	
13:00 - 13:10	Liliia CHERTENKO, Viktoriia KERNESH, Natalia KUZINA **Study of Changes in Foot Morphometric Parameters and Biomechanical Characteristics During Pregnancy for the Optimization of Adaptive Footwear Design**
13:10 - 13:20	Anatolii DANYLKOVYCH, Roman KRUPA, Olena OKHMAT **Increasing the Efficiency of Using Elastic Leather Material**
13:20 - 13:30	Cătălin GROSU, Emilia VISILEANU, Felicia DONDEA, Alina VLADU, Răzvan SCARLAT **Smart Textile-Based Sensing for Autonomous Hemorrhage Detection: Electrical Resistance Variation as a Trigger for Primary Hemostasis Systems**
13:30 - 13:40	Şahin GÜNGÖR **Comparative Analysis of Passive Water Harvesting Efficiency of Cylindrical and Spherical Systems**
13:40 - 13:50	Şahin GÜNGÖR, Erdal CETKIN **Enhanced Heat Transfer Via Integration of Finned Structure and Cooling Plate for Electric Vehicle Battery Thermal Management System**
13:50 - 14:00	Nurgul KOBEYEVA, Tazakul SULEIMENOVA, Gulzinat YELDIYAR **Investigation of the Effects of Different Fatliquoring Agents on the Finished Upper Leather**
14:00 - 14:10	Nataliia LEONOVA, Snezhana FOMENKO, Ihor HRETSKYI **General Growth-Promoting Activity of Diazotrophic Symbiotic Bacteria Under Cultivation Conditions with Flavonoids**
14:10 - 14:20	Dmytro NICULIN, Volodymyr KHOMENKO, Viktoriia PLAVAN, Vladyslav KHOMENKO **Optimization of Purification Routes for Spheroidized Graphite for Lithium-Ion Battery Anode**
14:20 - 14:30	**SHORT BREAK**

TOPIC 2: INNOVATIVE SYSTEMS AND TECHNOLOGIES *(CONTINUED)*	
14:30 - 14:40	Wehandaka PANCAPALAGA, Ambar PERTIWININGRUM, Suciana WIJIRAHAYU, Endy Syaiful ALIM, Rinaldy Achmad ROBERTH **Optimization of Temperature, Pressure, and Heating Time in Pressurized Hot Steam Ecoprinting for Improving the Color Quality of Sheep Leather**
14:40 - 14:50	Pavlo PYSARENKO, Tetiana KOLESNYK, Olena OKHMAT, Olena MOKROUSOVA **Influence of a Mixture of Metal Nanoparticles on Leather Antimicrobial Properties**
14:50 - 15:00	Adrian SĂLIȘTEAN **Flight Control of an Autonomous Foil Kite - Wind Energy Experimental Generator**
15:00 - 15:10	Sebastian SBÎRNĂ, Liana-Simona SBÎRNĂ **Performance Evaluation of GPU-Enhanced Multithreaded Algorithms for Optimizing Large-Scale High-Precision Matrix Multiplication**
15:10 - 15:20	Sebastian SBÎRNĂ, Liana-Simona SBÎRNĂ **A CUDA Study of Jacobi Solvers for the Three-Dimensional Poisson Equation in CFD: Single-GPU, Multi-GPU and Norm-Stopping Kernels**
15:20 - 15:30	Andrii SLIZKOV, Sergiy KRASNITSKIY, Nina MEREZHKO, Halyna MYKHAILOVA **Features of Predicting the Properties of Fibrous Products of Spinning Production**
15:30 - 15:40	Octavian-Adrian TABĂRĂ **The Use of Frequency Selective Fabrics in Shielding**
15:40 - 15:50	Iliyad Sherkat TABRIZI, Ali YORGANCIOGLU, Ersin ONEM **Vacuum-Assisted Wet-White Tanning for Sustainable Leather Production**
15:50 - 16:00	Doina TOMA, Alina POPESCU, Cristina GROSU, Georgeta POPESCU, Cătălin ENESCU, Marcel ISTRATE **Evaluation of the Comfort Properties of Inner Layer of a Modular Protective Clothing System for Interventions in Emergency Situations**
16:00 - 16:10	Jiayang WANG, Yixi LU, Jingjing LI, Jin ZHOU **Ergonomic Design and Biomechanical Evaluation of Operating Room Footwear for Plantar Pressure Redistribution**
16:10 - 16:20	**SHORT BREAK**
TOPIC 3: FASHION, TRADITION AND CULTURAL HERITAGE ***Chair: Dana GURĂU***	
16:20 - 16:30	Tetyana BUKOROS, Vsevolod BAKHMATSKY, Tatiana SHCHERBATYUK **Visual Symbolism as a Tool for Promoting Scientific and Cultural Heritage**
16:30 - 16:40	Larysa SEMENIUK, Dmitro DAVYDIUK, Tatiana SHCHERBATYUK **Experience in Utilising Biosocial Resources for the Education and Cultural Heritage Value Formation of Students at KNUTD**
16:40 - 16:50	Tatiana SHCHERBATYUK, Tetyana BUKOROS, Olena MOKROUSOVA **International DNA Day at Kyiv National University of Technologies and Design**

16:50 - 17:00	Linhan TONG, Jin ZHOU **Research on Human Pose Estimation in Along the River During the Qingming Festival Based on OpenPose**
17:00 - 17:10	Gulzinat YELDIYAR **Leather Products Used in Nomadic Culture, Their Characteristics, and Production Techniques: A Case Study - Leather Products Used by the Kazakh People**
17:10 - 17:20	L. Alexandrescu, D. Stelescu, L. Mészáros, L. Kiss, D. Constantinescu, K., Harre, M. Georgescu, D. Gurău **Recycling of Polypropylene and Ground Rubber Waste from Tires into Thermoplastic Elastomers**

Friday, October 9th 2026

TOPIC 4: BIOMATERIALS AND BIOTECHNOLOGIES *Chairs: Dr. chem. Mădălina ALBU-KAYA & Prof. Dr. Alpaslan KAYA*	
10:00 - 10:10	Taras BEHEI, Yuriy MELNYK, Oleksandr IVANUKH, Ihor CHERNYHEVYCH, Volodymyr SKOROKHODA **Synthesis of Polymer Hydrogels for Ultrathin Soft Contact Lenses with Enhanced Comfort**
10:10 - 10:20	Eduard-Gabriel CONSTANTIN, Mihaela Violeta GHICA, Cristina Elena DINU-PÎRVU, Lăcrămioara POPA, Valentina ANUȚA, Mădălina Georgiana ALBU KAYA, Răzvan Mihai PRISADA, Deniz SÖNMEZ, Irina-Alexandra DUMITRESCU **Ketoprofen-Loaded Polyvinyl Alcohol/Methylcellulose Films with Potential Application in Wound Healing: Design and Evaluation**
10:20 - 10:30	Elena DĂNILĂ, Minodora Maria MARIN, Rodica CONSTANTINESCU, Bogdan CAZAN, Mădălina ALBU KAYA, Irina-Alexandra DUMITRESCU, Ioana-Roxana CRIȘU, Mihaela Violeta GHICA **Advanced Cosmeceutical Hair Treatment Based on Ceramide and Collagen**
10:30 - 10:40	Irina-Alexandra DUMITRESCU, Mihaela Violeta GHICA, Cristina-Elena DINU-PÎRVU, Lăcrămioara POPA, Valentina ANUȚA, Mădălina Georgiana ALBU-KAYA, Răzvan Mihai PRISADA, Wail DAKAR, Eduard-Gabriel CONSTANTIN **Development and Characterization of PVA/Pectin Films for Periodontal Administration of an Antibacterial Drug**
10:40 - 10:50	Kristina HUSEINOVA, Vladyslava POTUPA, Mykola FEDKO, Lyudmyla SHKOTOVA, Iryna VOLOSHYNA **Natural Nanocomposite Hydrogels with Antibacterial Properties: Current Advances and Future Perspectives**
10:50 - 11:00	Ovidiu IORDACHE, Bogdan CAZAN, Elena PERDUM, Răzvan RĂDULESCU **Fungal Mycelium-Based Biomaterials: A State-of-the-Art Review for the Circular Economy**
11:00 - 11:10	Olga IUNGIN, Olena MOKROUSOVA, Kateryna TURKOT, Lesia MAISTRENKO **Preparation of Collagen Gels and Regulatory Assessment of Their Safety**

11:10 - 11:20	Oleksandr KALINICHENKO, Lesia MAISTRENKO, Andriy KHOMA, Tetyana KOLESNYK, Olena OKHMAT, Olena MOKROUSOVA, Olga IUNGIN **Development of a Biomimetic Collagen-Based 3D Platform for Modeling Wound Infections and Antimicrobial Screening**
11:20 - 11:30	**SHORT BREAK**
TOPIC 4: BIOMATERIALS AND BIOTECHNOLOGIES *(CONTINUED)*	
11:30 - 11:40	Oleksandr KAZAKOV-KRAVCHENKO, Sergiy LUKASHOV, Olena MOSHYNETS, Oleksandr KALINICHENKO, Olga IUNGIN **Thiazole Orange Dimers for Staining eDNA in Biofilms**
11:40 - 11:50	Yixi LU, Jiayang WANG, Jingjing LI, Jin ZHOU **Objective Performance Evaluation of Bio-Based Insoles Based on Material Type, Density, and Test Region**
11:50 - 12:00	Olena MOKROUSOVA, Nataliia OMELCHENKO, Anna BRAILKO **Characteristics of a Gate-to-Gate Life Cycle Inventory for Leather Production**
12:00 - 12:10	Anil ÖZÇELIK, Elif Eser BAYRAMOĞLU, Ali Maruf ALASKAN **Processing of Bovine Pericardiums with Hydrolyzed Keratin Part I: Hydrothermal Stability and Characterization Studies**
12:10 - 12:20	Anil ÖZÇELIK, Elif Eser BAYRAMOĞLU, Ali Maruf ALASKAN **Processing of Bovine Pericardiums with Hydrolyzed Keratin Part II: Dimensional Properties, Density, and Swelling Behaviors**
12:20 - 12:30	Nataliya SHCHEGLOVA, Eridan IZMERLI, Ihor BOBALO, Tetiana POKYNBRODA, Nataliya MONKA, Olena KARPENKO, Vira LUBENETS **Antimicrobial Preparations Based on Thiosulfonates and Rhamnolipids with Prolonged Action**
12:30 - 12:40	Volodymyr SKOROKHODA, Nataliya SEMENYUK, Galyna DUDOK, Volodymyr MALYNOVSKYI, Nazar SHALATA, Andrii PAKOSH **Porous Osteoplastic Hydrogel Composites with Antimicrobial Properties**
12:40 - 13:30	**LUNCH BREAK**
TOPIC 5: ECOLOGICAL PROCESSES & CIRCULAR AND NEUTRAL ECONOMY *Chairs: Dr. eng. Răzvan RĂDULESCU & eng. Mihai GEORGESCU*	
13:30 - 13:40	Olga ANDREYEVA, Tatiana SHCHERBATYUK, Antonina ZAIETS, Inessa KOROBKA **An Ecological Approach to the Use of Ozone Technologies in the Leather Industry (Mini-Review)**
13:40 - 13:50	Olga ANDREYEVA, Ihor HRETSKYI, Alina KORSUN, Nina MEREZHKO **Denitrification of Wastewater by the Phytoremediation Method**
13:50 - 14:00	Vasyl BROVCHENKO, Nataliia PERVAIA **Improvement of Footwear Manufacturing Technology Based on Sustainable Fashion Principles**
14:00 - 14:10	Olena BUDIAKOVA, Yelyzaveta ZELINSKA **Financing, Investment Attraction and Capital Transparency for Bioinnovations**

14:10 - 14:20	Maria FERREIRA, Patricia COSTA, Adriana SOARES, Diana DIAS and BIOSHOES4ALL Consortium **Circular Innovation and Environmental Footprint Reduction in the Footwear Value Chain**
14:20 - 14:30	Oleksandr IVANUKH, Yuriy MELNYK, Ihor SEMENIUK, Taras PERETYATKO, Yurij STETSYSHYN, Volodymyr SKOROKHODA **Investigation of the Effect of Bacteria and Fungi on the Biodegradation of Polyhydroxyalkanoate/Polylactide Films**
14:30 - 14:40	Murat KALDYKULOV, Gulzinat YELDIYAR **Research on the Effect of Different Bleaching Agents on the Properties of Cotton Fabric**
14:40 - 14:50	Murat KALDYKULOV, Gulzinat YELDIYAR **The Current State of the Textile Industry in Kazakhstan**
14:50 - 15:00	**SHORT BREAK**
TOPIC 5: ECOLOGICAL PROCESSES & CIRCULAR AND NEUTRAL ECONOMY *(CONTINUED)*	
15:00 - 15:10	Nurgul KOBEYEVA, Tazakul SULEIMENOVA, Gulzinat YELDIYAR **The Importance and Challenges of Developing the Footwear Industry in Kazakhstan**
15:10 - 15:20	Timur MIRDESOGLU, Nilay Ork EFENDIOGLU, Fatih YALCIN, Huseyin Ata KARAVANA **Inter-Regional Variations in Seam Tear Resistance of Calf Leather Using the TS EN ISO 23910 Test Method**
15:20 - 15:30	Mirela PANTAZI-BĂJENARU, Dana GURĂU, Demetra SIMION **Romanian Footwear Industry - Which Way? - Part II**
15:30 - 15:40	Serhii PRYSTYNSKYI, Viktoriia PLAVAN, Kyrylo ARTEMENKO, Virgilijus VALEIKA, Olena PALYVODA **Brainstorming as a Tool for Sustainable Improvement in the Polymer Waste Processing Industry: An Application Study**
15:40 - 15:50	Alexandra Gabriela STANCU, Maria RÂPĂ, Florin-Aurel DINCĂ **Microplastics from Wastewater Treatment Plant**
15:50 - 16:00	Vasilica-Viorica TONIȚĂ, Virgil Gabriel TEODOR, Laurențiu MARDARE **Study on the Chemical and Mineralogical Composition of Steelworks Dust for Introduction into the Sintering Process**
16:00 - 16:10	Gulzinat YELDIYAR **Kazakhstan Leather Industry**
16:10 - 16:20	Maryna ZHALDAK, Valentyna POLIUHA, Olena MOKROUSOVA **Prospects for Waste Minimization in the Leather and Textile Industries**
16:20 - 16:30	**SHORT BREAK**
TOPIC 6: AUTOMATION, ARTIFICIAL INTELLIGENCE AND DIGITALIZATION ***Chair: Dana GURĂU***	
16:30 - 16:40	Raluca Maria AILENI, Valentin BACIU, Adrian MARIN, Doina TOMA **Textile Innovation Through E-Learning Innovatex Erasmus+ Ecosystem**
16:40 - 16:50	Oksana VODZINSKA, Larysa BILOTSKA, Svitlana LOZOVENKO, Vitalina STEPANETS **Experience of Implementing 3D Clothing Design Technologies in Ukraine**

CLOSING CEREMONY	
16:50 - 17:00	Laurenția ALEXANDRESCU – Scientific Secretary, INCDTP-ICPI Dana GURĂU, INCDTP-ICPI

PARTNERS:

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MUSTAFA KEMAL UNIVERSITY, TURKEY

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DEPARTMENT OF BIOTECHNOLOGY, LEATHER AND FUR, KYIV NATIONAL UNIVERSITY OF TECHNOLOGIES AND DESIGN, UKRAINE

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY "POLITEHNICA" BUCHAREST, ROMANIA

UNIVERSITY OF BUCHAREST, ROMANIA

"GH. ASACHI" TECHNICAL UNIVERSITY OF IASI, ROMANIA

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