

# TEXTILES OF THE FUTURE

## ISKA 2010

### INTERNATIONAL SYMPOSIUM IN KNITTING AND APPAREL

## ~ PROGRAM ~

19-20 November 2010,  
Iași, Romania

Faculty of Textiles – Leather and Industrial Management  
Bd. Prof.dr.doc. Dimitrie Mangeron, 29, Iași

Organized by



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## Topics

1. New materials, functional and technical textiles
2. High performance fibres and yarns
3. Design and product development
4. IT Applications; CAD/CAM systems for knitting and clothing
5. Developments of technologies and equipments
6. Management, marketing and quality assurance

# SYMPOSIUM PROGRAM:

Friday, November 19 <sup>th</sup> , 2010	
Hour	Activity
09:00-10:00	Participants registration, Tex1 Building, Ground Floor
10:00-10:15	Welcome and Opening Remarks "I.C.Stefănescu" Auditorium, Tex1 Building
10:15-11:15	<b>Plenary Session 1:</b> Keynote presentations „I.C.Stefănescu” Auditorium, Tex1 Building Moderator: Carmen Loghin
	10:15 – 10:35 <b>Ana Maria Grancaric</b> <i>University of Zagreb, Faculty of Textile Technology, Croatia</i> INTERFACE PHENOMENA OF TEXTILES
	10:35 – 10:55 <b>Lubos Hes</b> <i>Technical University of Liberec, Czech Republic</i> PRINCIPLES OF CLOTHING COMFORT AND THEIR APPLICATION ON EVALUATION OF THERMAL COMFORT OF BEDSHEETS
	10:55 – 11:15 <b>Serban Strătilă</b> <i>ASTRICO NORD EST, Piatra Neamț, Romania</i> FROM PRODUCERS ASSOCIATION TO TEXTILE CLUSTER
11:15-11:45	<b>Coffee Break</b>
11:45-13:15	<b>Plenary Session 2:</b> Scientific papers I.C.Stefănescu Auditorium, Tex1 Building Moderators: Mariana Ursache, Irina Ionescu
	11:45 – 12:00 Ausma Viļumsone, <b>Inga Dabolina</b> <i>Riga Technical University, Institute of Textile Materials Technologies and Design Latvia</i> COMPUTER AIDED GARMENT DESIGNING
	12:00 – 12:15 <b>Niculescu Claudia</b> <sup>1</sup> Olaru Sabina <sup>1</sup> , Salistean Adrian <sup>1</sup> , Filipescu Emilia <sup>2</sup> , Avadanei Manuela <sup>2</sup> <sup>1</sup> <i>The National Research and Development Institute for Textiles and Leather, Bucharest, Romania,</i> <sup>2</sup> <i>"Gheorghe Asachi" Technical University of Iasi, Romania</i> 3D SCANNING TECHNOLOGY – A NEW PERSPECTIVE IN GARMENT MANUFACTURING
	12:15 – 12:30 <b>Anca-Dana Bendrea</b> <i>"Petru Poni" Institute of Macromolecular Chemistry, Iași, Romania</i> MULTIFUNCTIONAL TEXTILE COMPOSITE BASED ON POLY(THIOPHENE)S CONTAINING THERMOTROPIC MOIETIES. SYNTHESIS AND CHARACTERIZATION
	12:30 – 12:45 Mihai Penciu, <b>Mirela Blaga</b> , Ramona Ciobanu <i>"Gheorghe Asachi" Technical University of Iasi, Romania</i> PRINCIPLE OF CREATING 3D EFFECTS ON KNITTED FABRICS DEVELOPED ON ELECTRONIC FLAT KNITTING MACHINES
	12:45 – 13:00 <b>Elena Filipescu</b> , Mitu Stan (1) <i>"Gheorghe Asachi" Technical University of Iasi, Romania</i> 1. A NEW APPROACH IN THE FEMALE BODY FORM CHARACTERIZATION FOR CONSTRUCTION OF INDIVIDUAL CLOTHING; 2. STUDY ON VIRTUAL MANNEQUIN THE 3D FIT GARMENT SIMULATION

<b>13:15-13:45</b>	<b>Students' Design Collection</b> Council Room, Tex1 Buiding, Ground Floor Moderator: Antonela Curteza
<b>13:45-15:15</b>	<b>Lunch break</b>
<b>15:15-16:30</b>	<b>Plenary Session 3 : Scientific papers</b> Council Room, Tex1 Building, Ground Floor Moderators: Dan Dorin, Manuela Avădanei
	<p><b>Zoran Stjepanovic</b><sup>1</sup>, Andreja Rudolf<sup>1</sup>, Simona Jevšnik<sup>2</sup>, Andrej Cupar<sup>1</sup>, Vojko Pogačar<sup>1</sup>, Jelka Geršak<sup>1</sup> <sup>1</sup>University of Maribor, <sup>2</sup>Academy for design, Ljubljana, Slovenia RECONSTRUCTION OF A 3D BODY SCAN MODEL FOR VIRTUAL GARMENT PROTOTYPING</p> <p><b>Raluca Maria Aileni</b>, Daniela Farima, Mihai Ciocoiu "Gheorghe Asachi" Technical University of Iasi, Romania 1. REALISTIC BODY MOTION SIMULATION; 2. SIMULATION OF DEFORMABLE TEXTILE SURFACE FOR GARMENTS</p> <p>Abhijit Majumdar<sup>1</sup>, <b>Mirela Blaga</b><sup>2</sup>, <sup>1</sup>Department of Textile Technology, Indian Institute of Technology, Delhi, India, <sup>2</sup>"Gheorghe Asachi" Technical University of Iasi, Romania PREDICTION OF THERMAL PROPERTIES OF KNITTED FABRICS USING ARTIFICIAL NEURAL NETWORK</p> <p><b>Ancuta Elena Tulbure</b><sup>1</sup>, Radu Cezar Doru<sup>2</sup>, Podaru Sebastian Andrei<sup>1</sup>, Atodiresei Gheorghe Virgil<sup>1</sup> <sup>1</sup>The Academic Federation of Scientists, <sup>2</sup>"Gheorghe Asachi" Technical University of Iasi, Romania METHODS OF EVALUATION OF THE PRESSURE EXERTED BY THE MEDICAL STOCKINGS</p> <p><b>Mariana Păștină</b>, Marta-Cătălina Harnagea, Aura Mihai, Stan Mitu, Florentina Harnagea "Gheorghe Asachi" Technical University of Iasi, Romania ARCHITECTURE OF A FOOTWEAR COLLECTION ASSOCIATED TO CUSTOMIZED FOOTWEAR DESIGN</p> <p><b>Marius Butuc</b><sup>1</sup>, Costea Budulan<sup>1</sup>, Gabriela Bohm<sup>2</sup> <sup>1</sup>"Gheorghe Asachi" Technical University of Iasi, Romania <sup>2</sup>University of Oradea, Romania RESEARCH REGARDING TEXTILE ARTICLES WITH THERMO-REGULATING PROPERTIES</p> <p><b>Aurel Popp</b>, "Gheorghe Asachi" Technical University of Iasi, Romania 1. THE ANALYSIS OF ULTRASONIC WELDING PROCESS DEPENDING ON THE THERMAL AND ACOUSTIC EFFECTS 2. PROCESSING OF TEXTILE MATERIALS WITH LASER BEAM</p>
<b>16:30-17:00</b>	<b>Coffee Break</b>
<b>17:00-17:30</b>	<b>Poster Session 1</b> Tex1 Building, Ground Floor
<b>18:00</b>	<b>Cocktail</b>

**Saturday, November 20<sup>th</sup>, 2010**

<b>Hour</b>	<b>Activity</b>
<b>10:00-11:30</b>	<p><b>Plenary Session 4:</b> Scientific papers Council Room, Tex1 Building, Ground Floor Moderator: Mirela Blaga, Daniela Farîmă</p>
	<p><b>Aristide Dodu</b><sup>1</sup>, Dorin Dan<sup>2</sup>, <sup>1</sup><i>The Academy of Technical Sciences from Romania</i>, <sup>2</sup><i>"Gheorghe Asachi" Technical University of Iasi, Romania</i> MEDICAL TEXTILE MATERIALS FOR IMPLANTATION INTO HUMAN BODY</p> <p><b>Mirela Guignard</b><sup>1</sup>, Abhijit Majumdar<sup>2</sup>, Luminita Ciobanu<sup>1</sup>, Daniela Farima<sup>4</sup>, Mihai Ciocoiu<sup>1</sup> <sup>1</sup><i>"Gheorghe Asachi" Technical University of Iasi, Romania</i>, <sup>2</sup><i>Department of Textile Technology, Indian Institute of Technology, Delhi, India</i> BAMBOO - A NEW TEXTILE RAW MATERIAL</p> <p><b>Mihaela Hritcu</b><sup>1</sup>, Radu Cezar-Doru<sup>1</sup>, Aurelia Grigoriu<sup>1</sup>, Loti-Cornelia Oproiu<sup>2</sup> <sup>1</sup><i>"Gheorghe Asachi" Technical University of Iasi, Romania</i> <sup>2</sup><i>ICECHIM, Bucharest, Romania</i> THE PERFORMANCES OF A BIOMATERIAL WITH ANTI-ALLERGICAL PROPRIETIES</p> <p><b>Eveline Popovici</b><sup>1</sup>, Narcisa Vranceanu<sup>1</sup>, Iulia Alexa<sup>1</sup>, Claudia Mihaela Hristodor<sup>1</sup>, Diana Coman<sup>2</sup> <sup>1</sup><i>"AL. I. Cuza" University from Iasi</i>, <sup>2</sup><i>"Lucian Blaga" University from Sibiu</i>, CHARACTERIZATION OF SOME FIBROUS SUBSTRATES SURFACES COATED WITH Ag-DEPOSITED TiO<sub>2</sub> NANOPARTICLES, WITH POTENTIAL APPLICATION IN MULTIFUNCTIONAL FINISHES</p> <p><b>Stela Balan</b>, Irina Tutunaru, Marcela Irovan, Maria Burlea <i>Technical University of Moldova, Chisinau, Rep. of Moldova</i> DEVELOPMENT OF THE SPECIAL FISHERMEN'S WEAR ASSORTMENT</p> <p><b>Marcela Irovan</b>, Irina Tutunaru, Stela Balan, Natalia Bunica <i>Technical University of Moldova, Chisinau, Rep. of Moldova</i> REQUIREMENTS FOR HUNTERS' PROTECTIVE EQUIPMENT ELABORATION</p> <p><b>Irina Tutunaru</b>, Stela Balan, Marcela Irovan, Elena Melnic <i>Technical University of Moldova, Chisinau, Rep. of Moldova</i> ASPECTS OF WOMEN OFFICE CLOTHES DESIGNING</p> <p><b>Gabriela Vintea</b>, <i>"Gheorghe Asachi" Technical University of Iasi</i>, DESIGN ELEMENTS FOR MANUFACTURING LINES IN THE CLOTHING INDUSTRY</p> <p><b>Agis Papantoniou</b><sup>1</sup>, Savvas Vassiliadis<sup>1</sup>, Mirela Blaga<sup>2</sup>, Panagiotis Skordilakis<sup>1</sup>, Tryfon-Dionysios Karagiannis<sup>1</sup>, Niki Mela<sup>1</sup>, George Logios <sup>1</sup><i>Technological Education Institute of Piraeus, Greece</i>, <sup>2</sup><i>Gh. Asachi Technical University of Iasi, Romania</i> THE APPLICATION OF THE SEMANTIC WEB AND ITS TECHNOLOGIES IN THE TEXTILE &amp; CLOTHING SECTOR</p>
<b>11:30-12:00</b>	<b>Coffee Break</b>
<b>12:00-12:30</b>	<p><b>Poster Session 2</b> Tex1 Building, Ground Floor</p>
<b>12:30-12:45</b>	<p><b>Closing Ceremony of Symposium</b> Council Room, Tex1 Building</p>
<b>12:45-14:00</b>	<b>Lunch Break</b>
<b>14:00-20:00</b>	<p><b>Local visits, site seeing</b> Departure location: Parking area of the Faculty (Tex1)</p>

## LIST OF POSTERS

Friday, November 19 <sup>th</sup> , 2010	
<b>17:00-17:30</b>	<b>POSTER SESSION 1</b> Tex1, Ground Floor
1. <b>Vasile Blașcu</b> "Gheorghe Asachi" Technical University of Iasi, Romania INVESTIGATIONS IN TENSILE PROPERTIES OF WOOL IN DIFFERENT CONDITIONS OF TESTING	
2. <b>Vasile Blașcu</b> "Gheorghe Asachi" Technical University of Iasi, Romania STRUCTURE-PROPERTIES CORRELATIONS OF SOME POLY(ETHYLENE TEREPHTHALATE) FIBRES	
3. <b>Iulia Balau-Mandru</b> , Tudorel Bălău-Mîndru, Irina Tărăboanță "Gheorghe Asachi" Technical University of Iasi, Romania SPIDER SILK – PROPERTIES AND APPLICATIONS	
4. <b>Iulia Balau-Mandru</b> , Tudorel Bălău-Mîndru, Irina Tărăboanță "Gheorghe Asachi" Technical University of Iasi, Romania NATURAL POLYMERS FOR NANOFIBERS – FIBRINOGEN	
5. <b>Irina Tărăboanță</b> , Iulia Balau-Mandru "Gheorghe Asachi" Technical University of Iasi, Romania THE MECHANIC DEGRADATION OF THE SURFACE OF THE FILAMENTS FIBERS	
6. <b>Ana Vircan</b> , Avădanei Manuela, Stan Mitu "Gheorghe Asachi" Technical University of Iasi, Romania MODEL ANALYSIS CONCERNING BODY PROPORTIONS ON CHILDREN	
7. <b>Ana Vircan</b> , Avădanei Manuela, Stan Mitu "Gheorghe Asachi" Technical University of Iasi, Romania ASPECTS ON CHILDREN GROWTH DYNAMICS	
8. <b>Ramona Ciobanu</b> , Dorin Ionesi, Costea Budulan "Gheorghe Asachi" Technical University of Iasi, Romania DOUBLE-LAYERED KNITTED GLOVE	
9. <b>Dorin Ionesi</b> , Ramona Ciobanu, Mirela Blaga, Costea Budulan "Gheorghe Asachi" Technical University of Iasi, Romania MULTIAXIAL WARP KNITTED PREFORMS FOR COMPOSITE MATERIALS	
10. <b>Ecaterina Pintilie</b> , Elena Filipescu "Gheorghe Asachi" Technical University of Iasi, Romania 3D SIMULATION FOR THE INDIVIDUALIZED GARMENT	
11. <b>Ecaterina Pintilie</b> , Constanta Comandar "Gheorghe Asachi" Technical University of Iasi, Romania THE 3D REPRESENTATION OF THE WEFT KNITTED FABRIC	
12. <b>Emilia Filipescu</b> , "Gheorghe Asachi" Technical University of Iasi, Romania SPECIFICS IN PATTERN DESIGN FOR WOMEN WITH ATYPICAL BODIES	
13. <b>Viorica Crețu</b> , Laura Macovei "Gheorghe Asachi" Technical University of Iasi, Romania SEAMLESS BY WARP KNITTING TECHNOLOGY	
14. <b>Mariana Ursache</b> , Irina Ionescu, Carmen Loghin "Gheorghe Asachi" Technical University of Iasi, Romania INVESTIGATION ON SINGLE JERSEY GEOMETRICAL AND MECHANICAL PROPERTIES	
15. <b>Laura Macovei</b> , Viorica Crețu, Alina Apreutesei "Gheorghe Asachi" Technical University of Iasi, Romania A COMPARATIVE STUDY OF THE WEFT KNITTED FABRICS WITH TUCK STITCHES	
16. <b>Elena Moisescu</b> , Ecaterina Pintilie "Gheorghe Asachi" Technical University of Iasi, Romania STUDY ABOUT COMPACT STRUCTURE KNITWEAR UV RAYS PROTECTION FUNCTION	
17. <b>Liliana Lutic</b> , "Gheorghe Asachi" Technical University of Iasi, Romania INNOVATIVE COLLECTIONS OF CLOTHING PRODUCTS USING UNCONVENTIONAL RAW MATERIALS	
18. <b>Yordan Kyosev</b> <sup>1</sup> , Wilfried Renkens <sup>2</sup> <sup>1</sup> Hochschule Niederrhein – University of Applied Sciences, Mönchengladbach, Germany, <sup>2</sup> Renkens Consulting, Aachen, Germany MODELLING OF WARP KNITTED STRUCTURES - FROM PRODUCTION DATA TO 3D GEOMETRY	

19. <b>Cristian – Constantin Matenciuc</b> , Ionuț Dulgheriu, Stan Mitu "Gheorghe Asachi" Technical University of Iasi, Romania EXPERIMENTAL RESEARCH ON THE USE OF SYMPATEX FILM IN GARMENTS WITH RAINCOAT REPLACEMENTS	
20. <b>Ionuț Dulgheriu</b> , Cristian - Constantin Matenciuc, Stan Mitu "Gheorghe Asachi" Technical University of Iasi, Romania EXPERIMENTAL RESEARCH ON THE USE OF SYMPATEX FILM IN GARMENTS WITH RAINCOAT REPLACEMENT	
21. <b>Mihaela Carp</b> , Stan Mitu "Gheorghe Asachi" Technical University of Iasi, Romania RELATIONSHIP BETWEEN PRODUCT DESIGN CLOTHES AND REPRESENTATIVE TYPES OF ORNAMENTS	
22. <b>Manuela Avădanei</b> <sup>1</sup> , Manuela Mihăilișă <sup>2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, Romania, <sup>2</sup> "Solvay Business School", Bruxelles, Belgium A NEW OPTION FOR THE OWN BRAND -3D GARMENT DESIGN	
23. <b>Marius Diaconu</b> <sup>1</sup> , Manuela Diaconu <sup>1</sup> , Claudia Niculescu <sup>2</sup> , Manuela Avadanei <sup>3</sup> <sup>1</sup> Diaman Art, Iasi, <sup>2</sup> INCDTP, Bucharest, <sup>3</sup> "Gh. Asachi" Technical University, Iasi AUTOMATIC SOLUTION FOR DESIGNING GARMENT PATTERNS	
24. <b>Simi Stantieru</b> , Pulferia Nicolaiov, Adela Florea "Gheorghe Asachi" Technical University of Iasi, Romania THE FUNCTIONAL PERFORMANCE ANALYSIS FOR A POLYVALENT TECHNOLOGICAL MANUFACTURING LINE	
25. <b>Gabriela Ioana Vintea</b> , Stan Mitu "Gheorghe Asachi" Technical University of Iasi, Romania FLEXIBLE MANUFACTURING SYSTEMS AND MODEL FOR A SOFTWARE DEVELOPMENT	
26. <b>Alina Luca</b> "Gheorghe Asachi" Technical University of Iasi, Romania ROLE AND INFLUENCE OF STATE OVER INNOVATION PROCESS AND IMPLEMENTATION OF INNOVATION IN SMALL AND MEDIUM ENTERPRISES	
27. <b>Alina Luca</b> "Gheorghe Asachi" Technical University of Iasi, Romania MANAGEMENT ROLE OVER THE INNOVATION PROCESS AND IMPLEMENTATION OF INNOVATION IN SMALL AND MEDIUM ENTERPRISES	
28. <b>Madalina Zanoaga</b> , Tanasa Fulga Institute of Macromolecular Chemistry "Petru Poni", Iasi, Romania MULTI-LAYER NONWOVEN TECHNICAL MATERIALS OBTAINED BY THERMAL BONDING	
29. <b>Madalina Zanoaga</b> , Tanasa Fulga Institute of Macromolecular Chemistry "Petru Poni", Iasi, Romania EFFECT OF DIFFERENT ADDITIVES ON THE ADHESIVE PROPERTIES OF A COPOLYAMIDE 6/6.6	
30. <b>Rodica Harpa</b> "Gheorghe Asachi" Technical University of Iasi, Romania YARNS QUALITY ASSURANCE DEPENDING ON THE SPINNING SYSTEMS I, II	
<b>Saturday, November 20<sup>th</sup>, 2010</b>	
<b>12:00-12:30</b>	<b>POSTER SESSION 2</b> , Tex1, Ground Floor
1. <b>Gianina Broasca</b> , Daniela Farima, Mihai Ciocoiu "Gheorghe Asachi" Technical University of Iasi, Romania RESEARCH ON THE COMFORT FEATURES OF TEXTILE MATERIALS USED FOR POLICE UNIFORM	
2. <b>Vladlen Babcinetchi</b> , Stan Mitu "Gheorghe Asachi" Technical University of Iasi, Romania MODERN METHODS OF COMPARATIVE ANALYSIS OF THE HUMAN BODY'S PROPORTIONS	
3. <b>Vladlen Babcinetchi</b> , Stan Mitu "Gheorghe Asachi" Technical University of Iasi, Romania BODY'S PROPORTIONS SYSTEMS AND APPLICATIONS IN ART AND CLOTHING	
4. <b>Nicolae Constantinescu</b> „Lucian Blaga” University of Sibiu, Romania DOCUMENTARY RESEARCH ON HOW TO FORECAST THE MATERIAL-INFORMATION DUALITY WITHIN LOGISTIC FLOWS	
5. <b>Cristina Urzica</b> , Beatrice Giugaru "Gheorghe Asachi" Technical University of Iasi, Romania RESEARCHES REGARDING THE ACHIEVEMENT OF AN AUTOMATIC CONCEPTUAL SYSTEM GUIDING THE KNITTED FABRICS PROPERTIES	

<p>6. <b>Gheorghe Virgil Atodiresei</b><sup>1</sup>, Danut Prodan<sup>1</sup>, Ancuta Elena Tulbure<sup>1</sup>, Sebastian Andrei Podaru<sup>1</sup>, Jana Atodiresei<sup>2</sup>  <sup>1</sup>The Academic Federation of Scientists, Iasi, Romania, <sup>2</sup> Tehnical University of Moldavia, Chisinau  RESEARCHES ON THE CHEMICAL TECHNOLOGY OF DYEING OVINE FURS WITH ACID COLORANTS</p>
<p>7. <b>Ion Verzea</b>  "Gheorghe Asachi" Technical University of Iasi  MAINTAINABILITY BREAKEVEN POINT</p>
<p>8. <b>Teodor Ciprian Sava</b>, Marina Roman  "Gheorghe Asachi" Technical University of Iasi, Romania  a) LOCAL SIMPLE DEVIATIONS OF THE FIRST KIND EXISTING IN THE KNITTED FORCE-EXTENSION DIAGRAM; b) LOCAL SIMPLE DEVIATIONS OF THE SECOND KIND EXISTING IN THE KNITTED FORCE-EXTENSION DIAGRAM</p>
<p>9. <b>Marina Roman</b>, Ciprian Sava, Costea Budulan  "Gheorghe Asachi" Technical University of Iasi, Romania  DEFORMATION MECHANISMS IN KNITTED FABRICS. a) MAJOR DEVIATIONS FROM THE SIMPLIFIED GENERAL MODEL b) MINOR DEVIATIONS FROM THE SIMPLIFIED GENERAL MODEL</p>
<p>10. <b>Carmen Mihaela Popa</b>, Crețu Vasile  "Gheorghe Asachi" Technical University of Iasi, Romania  CONTRIBUTIONS ON EXTENDING POSSIBILITY ASSAY THE FABRIC ON UPON REQUEST OF BENDING</p>
<p>11. <b>Carmen Mihaela Popa</b>, Crețu Vasile  "Gheorghe Asachi" Technical University of Iasi, Romania  CONTRIBUTIONS ON EXTENDING POSSIBILITY ASSAY THE DETACHMENT FORCE FOR THE FABRIC CONSOLIDATED USING THE THERMO – ADHESIVE PROCESS</p>
<p>12. <b>Victoria Mečnika</b><sup>1</sup>, Edgars Kviesis<sup>2</sup>, Zbignevs Marcinkevičs<sup>2</sup>, Renārs Erts<sup>2</sup>, Ivars Krieviņš<sup>1</sup>, <sup>1</sup>Riga Technical University, <sup>2</sup>University of Latvia,  USABILITY OF A PHOTOPLETHYSMOGRAPHY DEVICE FOR A BIOMEDICAL GARMENT</p>
<p>13. <b>Rachid Chaib</b>  Mentouri University of Constantine, Algeria  FOR SUSTAINABLE DEVELOPMENT AS REGARDS PREVENTION, SAFETY AND HEALTH AT WORK IN A COMPANY</p>
<p>14. <b>Josef Skrivanek</b>, Martin Bilek  Technical University of Liberec, Czech Republic  ANALYSIS OF MATHEMATICAL MODEL OF THE FRAME OF SMALL-DIAMETER KNITTING MACHINE</p>
<p>15. <b>Kumar Anil</b>, Jaroslav Beran  Technical University of Liberec, Czech Republic  TRAVERSING MECHANISM FOR WINDING OF YARN WITH TRAVERSING CABLE DRIVEN BY TWO MOTORS</p>
<p>16. <b>Daniela Suteu</b>, Carmen Zaharia, Gabriela Rusu  "Gheorghe Asachi" Technical University of Iasi, Romania  TREATMENT OF TEXTILE COLORED EFFLUENTS USING SORPTION ONTO INDUSTRIAL CELLOLIGNIN WASTES</p>
<p>17. <b>Yordanka Angelova</b>, Alenka Pavko-Cuden<sup>2</sup>, Ales Hladnik<sup>2</sup>  <sup>1</sup>Technical University of Gabrovo, Bulgaria, <sup>2</sup>University of Ljubljana, Slovenia  ANOVA ANALYSIS OF THE STRUCTURAL, MATERIAL AND PROCESSING PARAMETERS ON THE KNITTED LOOP LENGTH</p>
<p>18. <b>Mariana Ursache</b>, Carmen Loghin, Rodica Mureșan, Angela Cerempei, Augustin Mureșan  "Gheorghe Asachi" Technical University of Iași, Romania  FUNCTIONAL FINISHES OF COTTON KNITTED FABRICS</p>
<p>19. <b>Ala Dabija</b>  Light Industry Faculty, Technical University of Moldova, Chisinau, Republic of Moldova  THE ASPECTS OF EGRONOMICAL CRITERIA USED IN DESIGNING OPTIMAL PROTECTION CLOTHING</p>
<p>20. <b>Ala Dabija</b>  Light Industry Faculty, Technical University of Moldova, Chisinau, Republic of Moldova  THE ISSUES OF STANDARDIZATION AND EVALUATION OF CONFORMITY TO THE PERSONAL PROTECTIVE EQUIPMENT</p>
<p>21. <b>Elena Moisescu</b>, Liliana Lutic  "Gheorghe Asachi" Technical University of Iași, Romania  KNITTED EXTENSIBILITY IMPORTANT FACTOR IN EVALUATING THE ERGONOMIC FUNCTION OF MANUFACTURED PRODUCTS</p>
<p>22. <b>Karel PEJCHAR</b>, Jaroslav Beran, Petr Krpeš  Technical University of Liberec, Czech Republic  DETERMINATION OF PENETRATION FORCE DURING SEWING PROCESS OF LEATHER</p>





**Europe**



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## About Iași

Situated in the North-East of Romania, between the Moldavian Plateau and Jijia Plain, on the River Bahlui, it used to be the crossing place of the most important commercial roads that passed through Moldavia coming from Poland, Hungary, Russia and Constantinople.

Archeological investigations attest the presence of human communities on the present territory of the city and around it as far back as the prehistoric age.

Iași is considered as the most important cultural centre of the country even after Bucharest. It is in Iași that the first Romanian university was founded in 1860 and at present, accommodates annually over 60,000 students in 5 public and 3 private universities. Iași is home to more than 50 churches and hosts several cultural centers. The National Theater (the oldest in Romania), Opera House, Iași State Philharmonic, Tătărași Athenaeum, Central University Library (the oldest in Romania), the large number of museums and memorial houses, the famous Botanical Garden (the oldest and largest in Romania), the independent theater and several student organizations show the intense cultural life in the city.

## Main sights

Iași is an outstanding educational center, and preserves some beautiful pieces of architecture, such as the Trei Ierarhi Church and the neo-Gothic Palace of Culture (the site of four museums - of History, of Technology, of Ethnography, and of Art).



Panoramic view over Iași



The Palace of Culture (1906–1925, designed in flamboyant neo-Gothic style)



“Trei Ierarhi” Church (1635–1639)



The Metropolitan Cathedral of Moldavia and Bukovina.

## Cultural life

One of the most important cultural center, Iași has many theaters, museums, and the like.

The "Vasile Alecsandri" National Theater, opened in 1837 is the oldest National Theatre in Romania. The building, designed according to the plans of the Viennese architects Hermann Helmer and Ferdinand Fellner was built between 1894–1896, and also hosts starting 1956 the National Romanian Opera Iași.



National Theatre "Vasile Alecsandri"

The Palace of Culture hosts four museums:

The Art Museum has the largest art collection in Romania, with more than 8,000 paintings, out of which 1,000 belong to the national and universal patrimony.

The Moldavian History Museum offers more than 35,000 objects from various fields: archaeology, numismatics, decorative art, ancient books, documents

The Ethnographic Museum of Moldavia owns more than 11,000 objects depicting the Romanian advance through the ages.

The Museum of Science and Technology offers many musical devices.

## Education and science

The first Technical High Education structure in Romanian language was established in the autumn of 1813, when engineer Gheorghe Asachi laid the foundations of a class of engineers, its activities taking place within the Greek Academy of Iași.

Iași is home to the oldest Romanian university (University of Iași), opened by (and nowadays named after) Domnitor Alexandru Ioan Cuza in 1860.

The city is host to five universities, and is widely regarded as the cultural "heart" of the Old Kingdom (that is Moldavia, Wallachia, and Dobruja - the three regions comprising Romania until 1918).

In 1937, the two applied science sections of the university of Iași became departments of the newly created Gheorghe Asachi Polytechnic School; In the period before and after World War II, the later (renamed Polytechnic Institute in 1948) extended its domain of activity, especially in the field of engineering, and became adopted a Technical University in 1993.

Public Universities in Iasi:

"Al. I. Cuza" University

"Gheorghe Asachi" Technical University of Iasi

"Gr. T. Popa" University of Medicine and Pharmacy

"G. Enescu" University of Arts

"Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine.