



4th International Conference of the Doctoral School

"Gheorghe Asachi" Technical University of Iasi

Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity



CONFERENCE PROGRAM

May 19–21, 2021

IASI, ROMANIA





Organizers

- "Gheorghe Asachi" Technical University of Iasi, Romania
- Council for Doctoral University Studies, CSUD
- Council of Doctoral School, CSD

Partner:

• "Gheorghe Asachi" University Foundation, Iasi, Romania

Conference Sections

- Section 1. Computers and information technology; Systems engineering
- Section 2. Chemistry; Chemical engineering; Environmental engineering
- Section 3. Civil engineering and installations
- Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology
- Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management





Organizer Message

Dear PhD Students, Dear Colleagues and Guests, Dear Participants,

At its fourth edition, the International Conference of the Doctoral School at the "Gheorghe Asachi" Technical University of Iasi (TUIASI) aims to provide PhD students of the Doctoral Schools from Technical Universities in Romania and abroad with a favorable framework for communicating the results of their research, exchanging ideas and initiating new collaborations, refine their theoretical and methodological approaches, encouraging presentation and continuous development of interdisciplinary research.

The three days conference (19th-21st of May, 2021) includes papers received in the frame of five Sections, held in four sessions daily, where PhD students can present and discuss their research papers. The program of the conference also include a number of plenary presentations held by prestigious professors from universities with which TUIASI has close collaborations.

The conference aims to bring together miscellaneous oral presentations dealing with relevant problems associated to the thirteen doctoral fields at the university: Chemistry; Computers and information technology; Chemical engineering; Civil engineering and installations; Electrical engineering; Electronic engineering, telecommunications and information technologies; Energetic engineering; Industrial engineering; Materials engineering; Mechanical Engineering; Environmental engineering; Systems engineering; Engineering and management.

Bridging the scientific doctoral fields, encouraging the innovation through interdisciplinary collaboration, and the orientation towards internationalization, this event offers an intellectual intersection between disciplines in which new ideas and progress in science would appear. This way the doctoral programs can be implemented with a focus on training PhD students for research and acquiring a set of core competencies that will allow for the immediate transfer to social institutions in search of a sustainable economy. For PhD students in the earlier stages of doctoral studies, the conference provides an opportunity to train for their first contributions to a certain scientific field, while for the PhD students in later stages, the communications held during conference can be seen as a scientific step towards the jobs market.

Please visit the conference website at: http://www.csd2021.tuiasi.ro

Welcome to CSD2021, wishing you a successful conference!

Honorary President,

Professor Dan CAŞCAVAL Rector TUIASI





Conference committees

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- Raul-George Ciubotaru, PhD Student
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- Iolanda Fusteș-Dămoc, Phd Student (Section 2)
- Vasile Grosu, PhD Student (Section 3)
- Mădălina Roman Nechifor, PhD Student (Section 4)
- Andrei Răţoi, PhD Student (Section 5)





General information

About our university

"Gheorghe Asachi" Technical University of Iasi is one of the most prestigeous universities in Romania, being classified as an advanced research and education university (according to the Order of Ministry of Education and Research, MECTS nr. 5262/2011), whose mission is to carry out specific activities of creation, innovative capitalization of knowledge and its transfer to society in the fundamental fields of engineering sciences, architecture and urbanism, as well as in interdisciplinary and complementary fields, in the local community, at regional, national and international levels.

"Gheorghe Asachi" Technical University of Iasi has the oldest tradition in engineering education in Romania, initiated by Gheorghe Asachi, a representative of the Romanian Enlightenment, and established within the Greek Academy in Iasi (Royal Academy) on November 15, 1813, by the decree signed by Scarlat Calimachi, the ruler of Moldova at that time. This school can be considered the nucleus of higher technical education in Moldova, continuing education between 1834-1847 at the Mihăilean Academy and later at the University of Iasi in the School of Industrial Electricity (since 1910), the Electrotechnical Institute (1912) and the Department of Technological Chemistry (since 1911).

On November 7, 1912, the Faculty of Sciences of the University of Iasi was transformed into an independent department of higher education for teaching electrical engineering, applied chemistry and agricultural sciences. This event represents the "birth certificate" of what later became the Polytechnic Institute of Iasi ("Gheorghe Asachi" Technical University of Iasi today), respectively of the Faculty of Electrical Engineering, Energy and Applied Informatics and the Faculty of Chemical Engineering and Environment Protection.

A crucial moment in the history of our university is the Decision no. 205.660/03.12.1937 of the Ministry of National Education, when, the technical higher education is taken out from the aegis of the University of Iasi by the establishment of the "Gheorghe Asachi" Polytechnic School of Iaşi, as a distinct institution of engineering higher education, the only higher education institution authorized to grant from that date the title of engineer. The University began its activity on October 1, 1938, within three faculties: Industrial Chemistry, Electrical Engineering and Agricultural Sciences, of which the first two were based in Iasi and the third in Chisinau. The first diplomas were issued in 1940.

Through the education reform of 1948, the "Gheorghe Asachi" Polytechnic Institute was established in Iaşi, with four faculties and ten specializations: Industrial Chemistry (mineral chemistry, leather), Civil Engineering, Electrical Engineering, Mechanics (thermodynamic engineering, hydrotechnics, machine building, aero-naval engineering) with a duration of studies of five years. The Polytechnic Institute of Iaşi functioned until 1990 with 6 faculties and many newly created specializations. In 1990, four new faculties were established, coming from the faculties of Electrical Engineering and Mechanics.

In 1993 the name of "Polytechnic Institute of Iasi" was replaced by "Gheorghe Asachi" Technical University of Iasi (TUIASI). In 2004 the Architecture department within the Faculty of Constructions and Installations became the "G.M. Cantacuzino" Faculty of Architecture and since then 11 faculties operate within TUIASI.

Today, TUIASI develops programs for undergraduate, master, doctoral, postdoctoral studies and scientific research in interdisciplinary research areas, out of which 10 areas were classified in category A, according to Law 1/2011 and HG 789/2011. The doctoral activity is organized within an interdisciplinary doctoral school including 13 doctoral fields established according to national and international research priority areas.





About the Conference program

The 4th edition of the International Conference of the Doctoral School of IOSUD "Gheorghe Asachi" Technical University of Iasi (CSD2021), which is organized under the generic "Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity" is programmed during **May 19-21, 2021 as videoconference** (a fee is not charged).

During the event, plenary conferences are scheduled, lasting 40 minutes each (including discussions), as well as oral presentations lasting 5 minutes each (including discussions). The papers received in the frame of five planned sections will be held on each conference day in 4 parallel sessions, each sessions being organized in 3 blocks, coordinated by a chairperson, separated by coffee breaks or lunch.

At the beginning of the second day of the conference, a session dedicated to diplomas awarding to the Honorary Members of the Doctoral School was planned.

The Conference will be developed on the **Google Meet platform**, at links which will be communicated to the attendees and guests before conference start, on the conference website.

Details on How to: Connect & Present at the conference can be found here

VERY IMPORTANT

The authors who will hold oral presentations are invited to log in at the beginning of the session in which the presentation is scheduled in order to avoid unexpected breaks during the session.

The connection needs a Google account (e.g. Gmail)

Oral presentations can be given in English or Romanian.

A PowerPoint support for your presentation adequate for 15 minutes would serve as visual aids that can enhance audience engagement and their understanding of your speech!

Contact persons:

Prof.dr. Alina-Adriana Minea alina.minea@yahoo.com; +40 723455071

Prof.dr. Maria Gavrilescu mgav@tuiasi.ro; +40 745528184





GENERAL CSD2021 CONFERENCE PROGRAM

Wednesday, 19 May, 2021

Time	Event			
9.00-9.30	Opening ceremony			
9.30-10.10	Plenary Conference 1			
10.10-10.50	Plenary Conference			
10.50-11.30	Plenary Conference			
10.50 11.50	Tichary conterent		https://meet.go	oogle.com/pav-xetj-rdk
11.30-11.45	Coffee Break			
	Parallel	Parallel	Parallel	Parallel
	Session 1.1	Session 2.1	Session 3.1	Session 4.1
	Session 1.1 Section 1.	Session 2.1 Section 2.	Session 3.1 Section 3.	Session 4.1 Section 5.
		Chemistry;	Civil engineering	Mechanical
	Computers and information	Chemical	and installations	engineering;
	technology; Systems	engineering;	and mstanations	Industrial
11 45 14 00	engineering	Environmental		engineering;
11.45-14.00	Clighteering	engineering		Materials
		clighteering		engineering;
				Engineering and
				management
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	L			om noup 1,11
14.00-15.00	Lunch			
	Parallel	Parallel	Parallel	Parallel
	Session 1.2	Session 2.2	Session 3.2	Session 4.2
	Section 1.	Section 2.	Section 3.	Section 5.
	Computers and	Chemistry;	Civil engineering	Mechanical
	information	Chemical	and installations	engineering;
	technology; Systems	engineering;		Industrial
15.00-16.45	engineering	Environmental		engineering;
	Section 4.	engineering		Materials
	Electrical			engineering;
	engineering; Energy			Engineering and
	engineering;			management
	Electronic	Indden on the control of		
	engineering,	https://meet.google .com/zpw-sffe-rrx	https://meet.google.c om/fdc-yagr-qcr	https://meet.google.c
	telecommunications	COM EPW-SHC-ITA	om/ruc-yag1-qcf	om/pfy-ogwf-ppn





	and information technology https://meet.google.com /wrs-bwqg-jyr			
16.45-17.00	Coffee Break			
	Parallel Session 1.3	Parallel Session 2.3	Parallel Session 3.3	Parallel Session 4.3
15.00.10.20	Section 4. Electrical engineering; Energy engineering; Electronic	Section 2. Chemistry; Chemical engineering; Environmental	Section 3. Civil engineering and installations	Section 5. Mechanical engineering; Industrial engineering;
17.00-19.30	engineering, telecommunications and information technology	engineering		Materials engineering; Engineering and management
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Thursday, 20 May, 2021

Time	Event			
9.00-10.15	Ceremony of awarding diplomas to Honorary Members of the Doctoral School			
10.15-10.30	Coffee Break			
10.30-11.10	Plenary Conferen	nce 4	https://moot.g	oogle.com/nsi-ciuk-gvk
11.10-11.15	Short Break		nttps://meet.g	oogie.com/nsi-ciuk-gvk
	Parallel Session	Parallel	Parallel	Parallel
	1.4	Session 2.4	Session 3.4	Session 4.4
	Section 4.	Section 2.	Section 3.	Section 5.
	Electrical	Chemistry;	Civil engineering	Mechanical
	engineering;	Chemical	and installations	engineering;
11.15-14.00	Energy	engineering;		Industrial
11.13-14.00	engineering;	Environmental		engineering;
	Electronic	engineering		Materials
	engineering,			engineering;
	telecommunications			Engineering and
	and information	https://meet.google.c	https://meet.google.c	management
	technology	om/pmq-qero-adj	om/mbomjre-tfi	





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Ι			
Lunch			
Parallel Session	Parallel	Parallel	Parallel
1.5	Session 2.5	Session 3.5	Session 4.5
Section 4.	Section 2.	Section 5.	Section 5.
Electrical	Chemistry;	Mechanical	Mechanical
engineering;	Chemical	engineering;	engineering;
Energy	engineering;	Industrial	Industrial
engineering;	Environmental	engineering;	engineering;
Electronic	engineering	Materials	Materials
engineering,		engineering;	engineering;
telecommunications		Engineering and	Engineering and
and information		management	management
technology			
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T			
Coffee Break			
Parallel	Parallel	Parallel	Parallel
Session 1.6	Session 2.6	Session 3.6	Session 4.6
Section 4.	Section 2.	Section 5.	Section 5.
Electrical	Chemistry;	Mechanical	Mechanical
	• ,		
engineering;	Chemical	engineering;	engineering;
engineering; Energy	Chemical engineering;	engineering; Industrial	engineering; Industrial
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Energy	engineering;	Industrial	Industrial
Energy engineering;	engineering; Environmental	Industrial engineering;	Industrial engineering;
Energy engineering; Electronic	engineering; Environmental	Industrial engineering; Materials	Industrial engineering; Materials
Energy engineering; Electronic engineering,	engineering; Environmental	Industrial engineering; Materials engineering;	Industrial engineering; Materials engineering;
Energy engineering; Electronic engineering,	engineering; Environmental	Industrial engineering; Materials engineering; Engineering and	Industrial engineering; Materials engineering; Engineering and
	Lunch Parallel Session 1.5 Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology https://meet.google.co m/yvm-mzfb-qbz Coffee Break Parallel Session 1.6 Section 4. Electrical	Lunch Parallel Session 1.5 Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology https://meet.google.co m/yvm-mzfb-qbz Parallel Session 1.6 Session 2.5 Section 2. Chemistry; Chemical engineering; Environmental engineering https://meet.google.co om/uye-sfdt-rhj Coffee Break Parallel Session 1.6 Session 2.6 Section 2.	Description Parallel Parallel Session 2.5 Section 4. Section 2. Section 5. Mechanical engineering; engineering; engineering; Environmental engineering Electronic engineering Environmental engineering; Electronic engineering Environmental engineering; Engineering; Section 6. Section 6. Section 7. Section 7. Section 8. Section 8. Section 9. Section 9.

Friday, 21 May, 2021

9.00-9.40 Plenary Conference 5 9.40-10.20 Plenary Conference 6 https://meet.google.com/nsi-ciuk-gvk 10.20-10.30 Coffee Break	Time	Event	
https://meet.google.com/nsi-ciuk-gvk	9.00-9.40	Plenary Conference 5	
	9.40-10.20	Plenary Conference 6	
10.20-10.30 Coffee Break		https://meet.google.com/ns	i-ciuk-gvk
	10.20-10.30	Coffee Break	





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10.30-12.30	Parallel	Parallel	Parallel	Parallel
	Session 1.7	Session 2.7	Session 3.7	Session 4.7
	Section 5.	Section 5.	Section 3.	Section 5.
	Mechanical	Mechanical	Civil engineering	Mechanical
	engineering;	engineering;	and installations	engineering;
	Industrial	Industrial		Industrial
	engineering;	engineering;		engineering;
	Materials	Materials		Materials
	engineering;	engineering;		engineering;
	Engineering and	Engineering and		Engineering and
	management	management		management
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12.30-13.00	Coffee Break			
12.30-13.00	Conce Break			
13.00-14.45	Daniellal Carrian	DII-I	D 11.1.0.1	B 11.1
13.00 17.73	Parallel Session	Parallel	Parallel Session	Parallel
13.00 14.43	1.8	Session 2.8	Parallel Session 3.8	Parallel Session 4.8
13.00 14.43		_ 02 02202	_ = ===================================	_ 00_00_0
13.00 14.43	1.8	Session 2.8	3.8	Session 4.8
13.00 14.43	1.8 Section 5.	Session 2.8 Section 5.	3.8 Section 3.	Session 4.8 Section 5.
13.00 14.43	1.8 Section 5. Mechanical	Session 2.8 Section 5. Mechanical	3.8 Section 3. Civil engineering	Session 4.8 Section 5. Mechanical
13.00 14.43	1.8 Section 5. Mechanical engineering;	Session 2.8 Section 5. Mechanical engineering;	3.8 Section 3. Civil engineering and installations https://meet.google.co	Session 4.8 Section 5. Mechanical engineering;
13.00 14.43	1.8 Section 5. Mechanical engineering; Industrial	Session 2.8 Section 5. Mechanical engineering; Industrial	3.8 Section 3. Civil engineering and installations	Session 4.8 Section 5. Mechanical engineering; Industrial
13.00 14.43	1.8 Section 5. Mechanical engineering; Industrial engineering;	Session 2.8 Section 5. Mechanical engineering; Industrial engineering;	3.8 Section 3. Civil engineering and installations https://meet.google.co	Session 4.8 Section 5. Mechanical engineering; Industrial engineering;
13.00 14.43	1.8 Section 5. Mechanical engineering; Industrial engineering; Materials	Session 2.8 Section 5. Mechanical engineering; Industrial engineering; Materials	3.8 Section 3. Civil engineering and installations https://meet.google.co	Session 4.8 Section 5. Mechanical engineering; Industrial engineering; Materials
13.00 14.43	1.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering;	Session 2.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering;	3.8 Section 3. Civil engineering and installations https://meet.google.co	Session 4.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering;
13.00 14.43	1.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management	Session 2.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and	3.8 Section 3. Civil engineering and installations https://meet.google.co	Session 4.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management
13.00 14.43	1.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and	Session 2.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and	3.8 Section 3. Civil engineering and installations https://meet.google.co	Session 4.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management https://meet.google.c
13.00 14.43	1.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management https://meet.google.co	Session 2.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and	3.8 Section 3. Civil engineering and installations https://meet.google.co	Session 4.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management
14.45-15.15	1.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management https://meet.google.co	Session 2.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and	3.8 Section 3. Civil engineering and installations https://meet.google.co	Session 4.8 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management https://meet.google.c





CSD2021 DETAILED CONFERENCE PROGRAM

Wednesday, 19 May, 2021

Time	Event	
9.00-9.30	Opening ceremony	
	Prof.dr. Alina-Adriana Minea	Director of the Council for Doctoral Studies, "Gheorghe Asachi" Technical University of Iasi, Romania President of CSD2021
	Prof.dr. Dan Cașcaval	Rector of the Technical University of Iasi, Romania Honorary President of CSD2021
	Prof.dr. Carmen-Maria Loghin	Vice-Rector Scientific Research, Development and Innovation
	Prof.dr. Maria Gavrilescu	Director of the Doctoral School, "Gheorghe Asachi" Technical University of Iasi, Romania Co-President of CSD2021

PLENARY SESSION 1

Chairperson: Prof.dr. Alina-Adriana Minea

9.30-10.10	Pertraction - Unconventional Alternative for Separating Biosynthesis Products	Prof.dr. Dan Caşcaval "Gheorghe Asachi" Technical University of Iasi, Romania
10.10-10.50	Materials Performance in Hydrogen Environments	Prof.dr. Dan Eliezer Ben-Gurion University of the Negev, Beer Sheva, Israel
10.50-11.30	New Trends in Medical Robotics	Prof.dr. Doina Pîslă Technical University of Cluj- Napoca, Romania
11.30-11.45	Coffee Break	





Parallel Session 1.1: Wednesday, 19 May, 11.45-14.00

Section 1. Computers and information technology; Systems engineering Chairperson: Prof.dr. Constantin Căruntu

Time	Oral presentation	Authors
11.45-12.00	The multi-sensory experience enabled by using state-of-the-art technology in	Andrei Lazăr "George Enescu" National University of
11.43 12.00	luminaires	Arts, Iasi, Romania
	Turrinares	Veronica Sirghei Ciobanu
		"Dunărea de Jos" University of Galati,
12.00-12.15	Assessment of security for most visited	Romania
12.00 12.10	e-commerce sites in Romania	(Computers and information
		technology)
		Narcisa-Daniela Ştefănescu
	Evaluating the newformance of a linear	"Stefan cel Mare" University of
12.15-12.30	Evaluating the performance of a linear model used in regression	Suceava, Romania
	model used in regression	(Computers and information
		technology)
		Casian Miron, Laura Ioana
		Grigoras, Radu Ciucu
	Eye image segmentation method based	"Gheorghe Asachi" Technical
12.30-12.45	on the modified U-net CNN	University of Iasi, Romania, Faculty of
	architecture	Automatic Control and Computer
	arcintecture	Engineering
		(Computers and information
		technology)
		Otilia Zvorișteanu
		"Gheorghe Asachi" Technical
12.45-13.00	Towards real-time semantic instance	University of Iasi, Romania, Faculty of
12.43-13.00	segmentation	Automatic Control and Computer Engineering
		(Computers and information
		technology)
		Stefan Daniel Achirei
		"Gheorghe Asachi" Technical
		University of Iasi, Romania, Faculty of
13.00-13.15	Short literature review for Visual Scene	Automatic Control and Computer
	Understanding	Engineering
		(Computers and information
		technology)
		Alexandru-Gabriel Tudorache,
		Vasile-Ion Manta, Simona Caraiman
	Implementation of the Bernstein-	Gheorghe Asachi" Technical University
13.15-13.30	Vazirani quantum algorithm using the	of Iasi, Romania, Faculty of Automatic
	Qiskit framework	Control and Computer Engineering
		(Computers and information
		technology)





13.30-13.45	Carbon offset calculators	Mihaela Popa Petroleum-Gas University of Ploiesti, Romania (Systems engineering)
13.45-14.00	The influence of the choice of parameters on the quality of the Kerf on a Oxytome Plasmatome HPi	Ana-Maria Ciobanu, Ioana Arabela Ciobanu University of Petrosani, România (Systems engineering)
14.00-15.00	Lunch	

Parallel Session 2.1: Wednesday, 19 May, 11.45-14.00

Section 2. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Prof.dr. Silvia Curteanu

Time	Oral presentation	Authors
11.45-12.00	The effect of thioglycerol groups on different inorganic materials and their applications	Andreea Hortolomeu ¹ , Diana-Carmen Mirilă ¹ , Nicoleta Platon ¹ , Didi Mohamed Amine ² , Rodica Sturza ³ , Iurie Scutaru ³ , Ileana Denisa Nistor ¹ ¹ "Vasile Alecsandri" University of Bacău-Romania, ² University Abou Bekr Belkaid of Tlemcen, Algeria ³ Technical University of Moldova, FChisinau, Republic of Moldova (Chemical engineering)
12.00-12.15	Synthesis of CoO – NiO coated on K10-montmorillonite used for catalytic ozonation of Tartrazine (E102)	Diana Carmen Mirilă ¹ , Denisa Ileana Nistor ¹ , Mohamed Amine Didi ² , Azzouz Abdelkrim ³ 1"Vasile Alecsandri" University, Bacau, Romania ² University Abou Bekr Belkaid-Tlemcen, Algeria ³ University of Quebec at Montreal, Nanoqam, Montreal, Canada (Chemical engineering)
12.15-12.30	Physico-chemical characterization of hazardous liquid wast	Maria-Oana Agavriloaie ¹ , Maria Harja ¹ , Iulian Cucoș ² Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)





12.30-12.45	Diffusion models for controlled release of components from a matrix	Manuela Alexandru, Ioan Mamăligă Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)
12.45-13.00	A neuro-evolutive method applied for optimizing the process for obtaining bricks using silicon based materials	Costel Anton ¹ , Silvia Curteanu ¹ , Florin Leon ² Gheorghe Asachi" Technical University of Iasi, Romania, ¹ "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, ² Faculty of Automatic Control and Computer Engineering (Chemical engineering)
13.00-13.15	Heterostructuring layered double hydroxides with metals nanoparticles or metal oxides for applications in nanomedicine	Theodor Bahnariu, Gabriela Carja Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)
13.15-13.30	A study of the flammability of magnesium in absence of oxygen	Ioan Barabulica Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)
13.30-13.45	Physico-chemical characterization of Arabica and Robusta spent coffee blends	Victoria Bejenari, Mirela-Anastasia Moraraș, Roxana Constantinel, Gabriela Lisa Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)
13.45-14.00	Multiple Linear Regression (MLR) models used for the prediction of excess thermodynamic properties from experimental refractive index	Iuliana Bîrgăuanu, Cătălin Lisă, Silvia Curteanu, Gabriela Lisă Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)
14.00-15.00	Lunch	





Parallel Session 3.1: Wednesday, 19 May, 11.45-13.30

Section 3. Civil engineering and installations

Chairperson: Prof.dr. Petru Mihai

Time	Oral presentation	Authors
11.45-12.00	Adaptive architecture – a beneficial interaction with technology	Ionut Dohotariu "Ion Mincu" University of Architecture and Urbanism, Bucharest, Romania (Civil engineering and installations)
12.10-12.15	Issues regarding the appropriateness of using precast reinforced concrete frame structures compared to monolithic reinforced concrete frame structures, in office buildings and residential buildings	Sorin Bogdan Hauşi "North Centre, Baia Mare, Technical University of Cluj Napoca, Romania (Civil engineering and installations)
12.15-12.30	A review on the energy performance and efficiency of radiant floor heating systems with integrated phase change materials	Marius Brănoaea "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)
12.30-12.45	Passive strategies of vernacular architecture for energy efficiency	Alexandra Cojocaru, Dorina Nicolina Isopescu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)
12.45-13.00	Structural response of stepback buildings in case of multiple underground levels	Cosmina Vasilica Gafincu, Irina Lungu, Petru Mihai "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)
13.00-13.15	System of counting users of a public building	Mihai Ciprian Mitrea, Andrei Burlacu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)
13.15-13.30	Experimental investigation on the optimum filling ratio of heat pipes used for heat recovery systems	Robert Ștefan Vizitiu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)
14.00-15.00	Lunch	





Parallel Session 4.1: Wednesday, 19 May, 11.45-13.30

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Corneliu Munteanu

Time	Oral presentation	Authors
11.45-12.00	Study on the simulation of umbilical cable for underwater vehicle	Andra-Teodora Nedelcu ¹ , Cătălin Faităr ² , Nicolae Buzbuchi ² , Liviu Stan ² , Mihail Lucian Dumitrache ¹ Mircea cel Bătrân Naval Academy, Constanta, Romania ² Constanta Maritime University, Constanta, Romania (Mechanical engineering)
12.00-12.15	The opportunity of high strength steels utilization for a vlcc fore peak structure	Anca Bleoju, Gabriel-Emil Pruteanu, Costel-Iulian Mocanu 1"Dunărea de Jos" University of Galati, Romania (Mechanical engineering)
12.15-12.30	Green-Lindsay thermoelasticity for double porous materials	Anamaria-Nadie Leonte "Ovidus" University of Constanta, Romania (Mechanical engineering)
12.30-12.45	Driving the rod pumping system	Stefan Sorin Petroleum-Gas University of Ploiesti, Romania (Mechanical engineering)
12.45-13.00	Problems in insuring maintenance of transport systems of fluid hydrocarbons through metal pipes	Robert-Gheorghe Vlădescu Oil and Gas University of Ploiesti, Romania (Mechanical engineering)
13.00-13.15	Methods of carrying out the anticipative maintenance of fluid hydrocarbons transport systems	Robert-Gheorghe Vlădescu Oil and Gas University of Ploiesti, Romania (Mechanical engineering)
13.15-13.30	Hybrid propulsion system for a medium size oil tanker	Dragos Mihai Popa University of Pitesti, Romania (Mechanical engineering)
14.00-15.00	Lunch	





Parallel Session 1.2: Wednesday, 19 May, 15.00-16.45

Section 1. Computers and information technology; Systems engineering **Section 4.** Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof. Florin Leon

Time	Oral presentation	Authors
	Modernization system of the	Ioana Arabela Ciobanu, Ana-Maria
15.00-15.15	electrofilters from the steam boiler	Ciobanu
	regarding the increase of the dusting	University of Petrosani, Romania
	performances	(Systems engineering)
		Andrei Baciu, Corneliu Lazar
	Comparative analysis of intelligent	Gheorghe Asachi" Technical University
15.15-15.30	PID controllers for a mechatronic	of Iasi, Romania, Faculty of Automatic
	system application	Control and Computer Engineering
		(Systems engineering)
		Marian Lupascu
	Performance evaluation of Rapidly	Gheorghe Asachi" Technical University
15.30-15.45	Exploring Random Trees for	of Iasi, Romania, Faculty of Automatic
	autonomous robots Path Planning	Control and Computer Engineering
		(Systems engineering)
		Ovidiu Pauca, Constantin-Florin
		Caruntu, Anca Maxim, Corneliu Lazar
15 45 16 00	Control architecture for automated	Gheorghe Asachi" Technical University
15.45-16.00	vehicles to ensure obstacle avoidance	of Iasi, Romania, Faculty of Automatic
		Control and Computer Engineering
		(Systems engineering)
	Prerequisites to design a collision free	Sofia Hustiu, Cristian Mahulea, Marius
	trajectory in a 3D dynamic	Kloetzer
16 00 16 15	environment for an UAV	Gheorghe Asachi" Technical University
16.00-16.15		of Iasi, Romania, Faculty of Automatic
		Control and Computer Engineering
		(Systems engineering)
		Noemi-Clara Rohatinovici ^{1,2} , Valentina
		E. Bălaș ² , Octavian Proștean ¹
		¹ Politehnica University of Timisoara,
		Romania
16.15-16.30	A short overview on networks	² "Aurel Vlaicu" University of Arad,
		Romania
		(Electronic engineering,
		telecommunications and information
		technology)
	Evaluation of several DID control	Vasilica-Daniela Andries
	Evaluation of several PID control	Gheorghe Asachi" Technical University
16.30-16.45	tuning methods for specified	of Iasi, Romania, Faculty of Electronics,
	performances of a DC-DC buck	Telecommunications and Information
	converter application	Technology





		(Electronic engineering, telecommunications and information technology)
16.45-17.00	Coffee Break	

Parallel Session 2.2: Wednesday, 19 May, 15.00-16.45

Section 2. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Prof.dr. Maria Harja

Time	Oral presentation	Authors
15.00-15.15	Vegetal extracts with application in agriculture	Gabriel Mihaita Daraban ¹ , Carmen Zaharia ¹ , Marinela Badeanu ² , Daniela Suteu ¹ Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine of Iasi, Romania (Chemical engineering)
15.15-15.30	Treated fly ash applied to adsorption of Cu(II) ions from aqueous solution	Loredana Forminte Litu ¹ , Maria Harja ¹ , Gabriela Buema ² ¹ Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection ² National Institute of Research and Development for Technical Physics, Iasi, Romania (Chemical engineering)
15.30-15.45	Thiolated chitosan for medical application	Iolanda Fusteş-Dămoc, Cătălina Anișoara Peptu, Teodor Măluţan Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)
15.45-16.00	Tailoring nanoarchitectonics of layered double hydroxides photocatalysts for degrading organic pollutants	Diana Gilea, Sofronia Dranca, Gabriela Carja Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)





		Cristina Carmen Stingu Palici ¹ ,
		Valentin Nedeff ¹ , Ion Sandu ² , Viorica
		Vasilache ² , Mihaela Orlanda
		Antonovici Munteanu ³
	The impact of climate change on	¹ "Vasile Alecsandri" University of Bacau,
16.00-16.15	natural reservation Poiana cu Schit	Romania
	from Iasi County	² "Alexandru Ioan Cuza" University of
		Iasi, Romania
		³ "Alexandru Ioan Cuza" University of
		Iași, Romania
		(Environmental engineering)
		Alexandru Pascaru ^{1,2}
	Corythycha ciliata (Say, 1832) – invazive insect from green areas in the Chişinău, Republic of Moldova	¹ ,,Stefan cel Mare" University of Suceava,
		Romania,
16.15-16.30		² Institute of Zoology, Laboratory of
		Entomology, Academiei Str. 1, MD-2028,
		Chişinău, Republic of Moldova
		(Environmental engineering)
		Dana-Mihaela Asiminicesei ¹ , Raluca-
		Maria Hlihor ² , Petronela Cozma ¹ ,
		Mihaela Roșca ¹ , Mariana Minuț ¹ ,
		Gavrilescu Maria ¹
	Single and combined toxicity of lead and cadmium to lettuce	¹ "Gheorghe Asachi" Technical University
16.30-16.45		of Iasi, "Cristofor Simionescu" Faculty of
10.30-10.43		Chemical Engineering and Environmental
		Protection
		² "Ion Ionescu de la Brad" University of
		Agricultural Sciences and Veterinary
		Medicine of Iasi, Romania
		(Environmental engineering)
16.45-17.00	Coffee Break	

Parallel Session 3.2: Wednesday, 19 May, 15.00-16.30

Section 3. Civil engineering and installations

Chairperson: Prof.dr. Petru Mihai

Time	Oral presentation	Authors
15.00-15.15	Influence of the dispersing agents on the soil particle size analysis	Andreea Vasilica Dascalu, Irina Lungu, Mircea Aniculaesi "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)
15.15-15.30	Use of limestone blocks in constructions in the Republic of Moldova	Doina-Cezara Albu





	,
	"Gheorghe Asachi" Technical University
	of Iasi, Romania, Faculty of Civil
	Engineering
	(Civil engineering and installations)
	<u>Dumitru-Dragoş Hanganu</u>
Notes about anything sand from	"Gheorghe Asachi" Technical University
	of Iasi, Romania, Faculty of Civil
bituininous schist	Engineering
	(Civil engineering and installations)
	Patrick Heinemann, Dorina Isopescu,
	Sebastian Maxineasa
Case studies on finite element modeling of welded joints	"Gheorghe Asachi" Technical University
	of Iasi, Romania, Faculty of Civil
	Engineering
	(Civil engineering and installations)
Volume of managinal strength density	Laurentiu Adam
and heat transfer coefficient of construction material made from cultivated Romanian hemp varieties	"Gheorghe Asachi" Technical University
	of Iasi, Romania, Faculty of Civil
	Engineering
	(Civil engineering and installations)
	Daniel Florin Maxim , Dorina Nicolina
Technologies for renewable energy	Isopescu, Sebastian George Maxineasa
on-site generation in the present	"Gheorghe Asachi" Technical University
	of Iasi, Romania, Faculty of Civil
Buildings	Engineering
	(Civil engineering and installations)
•	
Coffee Break	
	Values of mecanical strength, density and heat transfer coefficient of construction material made from cultivated Romanian hemp varieties Technologies for renewable energy on-site generation in the present context of Nearly Zero-Energy Buildings

Parallel Session 4.2: Wednesday, 19 May, 15.00-16.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Daniela Popescu

Time	Oral presentation	Authors
15.00-15.15	Lean concept disambiguation using taxonomy approach	Adrian Câcu, Eugen Purice, Laurențiu Larco "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Machine Manufacturing and Industrial Management (Mechanical engineering)
15.15-15.30	Aspects concerning the use of magnetoreological fluids in construction of shock absorbers	Corneliu-Daniel Ghiorghe, Doru Călărașu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of





-		Machine Manufacturing and Industrial
		Management
		(Mechanical engineering)
		Mihai-Vasile Roman, Daniela
		Popescu
	7.00	"Gheorghe Asachi" Technical
15.30-15.45	Effect of anti-corrosion treatment	University of Iasi, Romania, Faculty of
	applied to diesel injector nozzles	Machine Manufacturing and Industrial
		Management
		(Mechanical engineering)
		Diana Petronela Bistriceanu, Carmen
		Bujoreanu
15 45 16 00	Experimental investigation on assembly	"Gheorghe Asachi" Technical
15.45-16.00	process for high pressure injection	University of Iasi, Romania, Faculty of
	pump components	Mechanical Engineering
		(Mechanical engineering)
		Bogdan Chiriac, Cezara Măriuca
	From static to kinematic friction	Oprișan, Gelu Ianuș, Dumitru Olaru
16.00-16.15		"Gheorghe Asachi" Technical
10.00-10.13	coefficient in sliding processes	University of Iasi, Romania, Faculty of
		Mechanical Engineering
		(Mechanical engineering)
		Răzvan-Constantin Iordache,
		Carmen Bujoreanu
16.15-16.30	Main causes of the wear in high-	"Gheorghe Asachi" Technical
10.13-10.30	pressure pumps	University of Iasi, Romania, Faculty of
		Mechanical Engineering
		(Mechanical engineering)
		Nicolae-Adrian Nițu, Vasile Caunii,
		Carmen Bujoreanu
16.30-16.45	Methods and techniques for	"Gheorghe Asachi" Technical
10.30-10.43	vibroacoustic diagnostic of vehicles	University of Iasi, Romania, Faculty of
		Mechanical Engineering
		(Mechanical engineering)
16.45-17.00	Coffee Break	

Parallel Session 1.3: Wednesday, 19 May, 17.00-19.00

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof.dr. Dan Marius Dobrea

Time	Oral presentation	Authors
	The use of Formants' Correlation in	<u>Stefan-Andrei Gheltu</u>
17.00-17.15	assesing the sadness state of the	Gheorghe Asachi" Technical University
	speakers	of Iasi, Romania, Faculty of Electronics,





		Telecommunications and Information Technology (Electronic engineering, telecommunications and information technology)
17.15-17.30	Aspects regarding machine learning principles	Vasile Grosu Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology (Electronic engineering, telecommunications and information technology)
17.30-17.45	Head gesture recognition based on capacitive sensors using Deep Learning algorithms	Ionut-Cristian Severin, Dan-Marius Dobrea Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology (Electronic engineering, telecommunications and information technology)
17.45-18.00	Power distribution network optimisation - effect on conducted and radiated emissions	Marius Ionel Muraru Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology (Electronic engineering, telecommunications and information technology)
18.00-18.15	Video image processing using the Jetson Nano development kit	Marius-Emanuel Obreja Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology (Electronic engineering, telecommunications and information technology)
18.15-18.30	On the usage of Artificial Neural Networks in power electronics components for vehicle electrification	Octav Pintilie Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology (Electronic engineering, telecommunications and information technology)
18.30-18.45	System for detecting the transmission error rate during Wi-Fi	Ionut-Cristian Severin





	communication with CC3220SF	Gheorghe Asachi" Technical University
	LaunchPad	of Iasi, Romania, Faculty of Electronics,
		Telecommunications and Information
		Technology
		Ionut Adrian Iftode , Cristian-Ioan
		Fosalau
	Review on microcontroller platforms	Gheorghe Asachi" Technical University
18.45-19.00	and their applicability in iot embedded	of Iasi, Romania, Faculty of Electrical
	systems	Engineering, Energetics and Applied
		Informatics
		(Electrical engineering)

Parallel Session 2.3: Wednesday, 19 May, 17.00-19.15

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Prof.dr. Laura Bulgariu

Time	Oral presentation	Authors
17.00-17.15	Removal of Hg(II) from aqueous solution on clay adsorbent: isotherm and kinetics studies	Elena-Bianca Azanfire, Laura Bulgariu "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
17.15-17.30	Assessement of crude liquid phase resulted from hydrothermal conversion of spruce bark wastes	Iuliana Bejenari, Gabriela Antoaneta Apostolescu, Irina Volf "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
17.30-17.45	Sustainable urban community – a conceptual framework	Dana Burlea Perniu ^{1,2} , Carmen Teodosiu ¹ 1"Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection 2Transilvania University of Brasov, Romania (Environmental engineering)
17.45-18.00	Wastewater monitoring in the coffee industry	Mihăiță-Nicuşor Capră, Carmen Teodosiu "Gheorghe Asachi" Technical University of Iasi, "Cristofor





		Simionescu" Faculty of Chemical
		Engineering and Environmental
		Protection
		(Environmental engineering)
		Alina-Alexandra Ciobanu, Laura
		Bulgariu
	Use of biochars obtained from marine	"Gheorghe Asachi" Technical
	algae biomass as potential biosorbents	University of Iasi, "Cristofor
18.00-18.15	for the removal of Zn(II) ions from	Simionescu" Faculty of Chemical
	aqueous media	Engineering and Environmental
	aqueous media	Protection
		(Environmental engineering)
		Ramona Ciobanu, Andreea Gherghel,
		Corina-Petronela Musteret, Oana
		Plăvan,
	Efficiency of coagulation-flocculation for natural organic matter removal in drinking water treatment	Irina Moroşanu, Carmen Teodosiu
		"Gheorghe Asachi" Technical
18.15-18.30		University of Iasi, "Cristofor
		Simionescu" Faculty of Chemical
		Engineering and Environmental
		Protection
		(Environmental engineering)
		Codrut-Ștefan Ciobanu, Laura
	Application of PET flakes as low-cost adsorbent for Pb(II) ions removal	Bulgariu
		"Gheorghe Asachi" Technical
10.20.10.45		University of Iasi, "Cristofor
18.30-18.45		Simionescu" Faculty of Chemical
		Engineering and Environmental
		Protection
		(Environmental engineering)
		Ramona Copae, Anca-Mihaela
18.45-19.00		Mocanu, Laura Bulgariu
	Adsorption behaviour of Pb(II) ions	"Gheorghe Asachi" Technical
	from aqueous media on PET fibres	University of Iasi, "Cristofor
	functionalized with Orange G reactive	Simionescu" Faculty of Chemical
	dye	Engineering and Environmental
	-	Protection
		(Environmental engineering)

Parallel Session 3.3: Wednesday, 19 May, 17.00-18.30

Section 3. Civil engineering and installations

Chairperson: Prof.dr. Petru Mihai

Time	Oral presentation	Authors
17.00-17.15	Notes about Bf sludge for potential use as filler in asphalt mixture composition	Dana-Ramona Nanea "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering





		(Civil engineering and installations)	
17.15-17.30	Compression resistance of concrete	Alexandra Pamfil, Petru Mihai "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering	
17.30-17.45	The importance of entrepreneurial management in the civil construction branch Radu Rusu, Ion Şerbănoiu "Gheorghe Asachi" Technica University of Iasi, Romania, I Civil Engineering (Civil engineering and install		
17.45-18.00	Aspects of the temperature field distribution in traditional earthen houses from Moldova region	Valentin Rusu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)	
18.00-18.15	Autonomous processes in concrete matrix on bio products	Cătălin Sbîrlea, Dorina Nicolina Isopescu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)	
Architecture of ProtoDesign: the Tectonics of adaptive cinematic design and enacted semantics between Andreea Felciuc Ton Mincu' University of A and Urbanism, Bucharest, F		Andreea Felciuc "Ion Mincu" University of Architecture and Urbanism, Bucharest, Romania (Civil engineering and installations)	

Parallel Session 4.3: Wednesday, 19 May, 17.00-18.30

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

Engineering and management

Chairperson: Prof.dr. Aristotel Popescu

Time	Oral presentation	Authors
17.00-17.15	Hovercrafts – an overview: Main components of air cushion vehicle	Mihai-Silviu Pavăl ¹ , Aristotel Popescu ¹ , Dănuţ Zahariea ² "Gheorghe Asachi" Technical University of Iasi, Romania, ¹ Faculty of Mechanical Engineering, ² Faculty of Machine Manufacturing and Industrial Management (Mechanical engineering)
17.15-17.30	Survey on regenerative braking in electrical and hybrid vehicles	Victor Stajilov, Carmen Bujoreanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering (Mechanical engineering)





17.30-17.45	Constructive solutions for reducing the energy consumed by the automotive HVAC system	Aida Maria Vranău ¹ , Carmen Bujoreanu ¹ , Vasile Caunii ² ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering ² "S.C. XTREME CHIP S.R.L, Iasi, Romania (Mechanical engineering)
17.45-18.00	A simplified method for determining the centrifugal effects in high speed angular contact ball bearings	Andrei Zamă, Ana Tufescu, Viorel Paleu, Dumitru Olaru "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering (Mechanical engineering)
18.00-18.15	The stress analysis of the milling machine structure	Kamil Lysek, Aleksander Gwiazda, Krzysztof Herbuś Silesian University of Technology, Gliwice, Poland (Mechanical engineering)
18.15-18.30	Modal analysis - design optimization by selecting material parameters	Kamil Lysek, Aleksander Gwiazda, Krzysztof Herbuś Silesian University of Technology, Gliwice, Poland (Mechanical engineering)





Thursday, 20 May, 2021

9.00-10.15	Ceremony of awarding diplomas to Honorary Members of the Doctoral School Chairpersons: Prof.dr. Alina-Adriana Minea, Prof.dr. Maria Gavrilescu
10.15-10.30	Coffee Break

PLENARY SESSION 2

Chairperson: Prof.dr. Maria Gavrilescu

10.30-11.10	Challenges in Recycling of Plastics and Microplastics - Bio- Based Solutions	Prof.dr. Nicolas Kalogerakis School of Environmental Engineering, Technical University of Crete, Greece
11.10-11.15	Short Break	

Parallel Session 1.4: Thursday, 20 May, 11.15-14.00

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof.dr. Maricel Adam

Time	Oral presentation	Authors	
11.15-11.30	Digital communications links cooperating with the analog 4-20 ma standard for marine applications	Mostafa Abotaleb, Janusz Mindykowski, Boleslaw Dudojc, Romuald Masnicki Gdynia Maritime University, Gdynia, Poland (Electrical engineering)	
11.30-11.45	Precision analysis and measurement tolerances of intelligent batery sensors in the automotive industry	Roxana Maria Goste Politehnica University Timisoara, Romania (Electrical engineering)	
11.45-12.00	Reliability analysis of automatic systems of monitoring the concentration of methane in the mining units in the jiulu valley	Daniela Furdui, Lucian Oltean, Evgheni Tasci University of Petrosani, Romania (Electrical engineering)	
12.00-12.15	Influence of bundle conductor configurations upon the generated electric field	<u>Dragos Florin Bordeianu</u> , Alexandru Salceanu, Constantin Dan Neagu	





		"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
12.15-12.30	Heating properties of gadolinium magnetocaloric material under the influence of a controlled magnetic field	Dorin Botoc, Adrian Pleşca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
12.30-12.45	The effect of thermal conductivity and the cooling capacity of the materials	Dorin Botoc, Adrian Pleşca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
12.45-13.00	Affordable approach for monitoring three human vital functions	Robert Fuior "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics
13.00-13.15	Application of S7-1200 PLC for temperature monitoring of a railway separator	Georgel Gabor, Georgian-Cosmin Pintilie "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
13.15-13.30	Effect of failure time distribution on reliability analysis	Mihai-Alexandru Ghidu, Ciprian Nemes "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
13.30-13.45	Assessing method for the potential induced degradation in photovoltaic systems	Robert Jahrsdorfer, Alexandru Salceanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
13.45-14.00	New solution for cereals, vegetables and fruits storage	Florinel Lupoiu, Gabor Georgel, Adrian Plesca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of





		Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
14.00-15.00	Lunch	

Parallel Session 2.4: Thursday, 20 May, 11.15-14.00

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Prof.dr. Carmen Teodosiu

Time	Oral presentation	Authors
	1	Florenta Dinita Suhani, George
11.15-11.30	Premises for the environmental assessment of second-hand vehicles imports in Romania	Barjoveanu, Carmen Teodosiu "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
11.30-11.45	Food waste to materials: current trends, global perspectives and impacts	Ersilia Daniela Lazăr Coșbuc, Elena- Diana Ungureanu-Comăniță, Maria Gavrilescu "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
11.45-12.00	Studies on the capacity of different microorganisms to promote plants growth applied for phytoremediation of heavy metals contaminated soils	Mariana Minut, Mihaela Roşca, Mariana Diaconu, Petronela Cozma, Maria Gavrilescu "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
12.00-12.15	New approaches to obtain graphene- like materials from lignocellulosic wastes	Valentina-Andreea Petre ^{1,2} , Gabriela Hristea ² , Radu-Cristian Dascălu ² , Virgil Marinescu ² , Gabriela Sbarcea ² , Irina Volf ^{1*} "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)





12.15-12.30	Optimization of experimental parameters for Co(II) ions biosorption on <i>Saccharomyces cerevisiae</i> yeast biomass	Evghenia Savastru ¹ , Cătălin-Ioan Zamfir ² , Laura Bulgariu ¹ ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection ² Romanian Academy, Iași Branch, Romania (Environmental engineering)
12.30-12.45	An assessment of waste management practices for implementing the Zero Waste Strategy. Case study: Comanesti, Bacau, Romania	Bogdan-Constantin Seto, Daniela Gavrilescu, Carmen Teodosiu "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
12.45-13.00	Removal of antibiotics from aqueous media by adsorption: current and future approaches	Cătălina Sirițeanu, Anca-Mihaela Mocanu, Carmen Zaharia, Laura Bulgariu "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
13.00-13.15	Biomass waste derived porous materials for hydrogen storage	Loredana Stan, Marius Secula, Irina Volf "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
13.15-13.30	Trends in municipal solid waste management in European Union	Anisoara Talapalaru, Daniela Gavrilescu, Carmen Teodosiu "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Environmental engineering)
13.30-13.45	Lead-inhibitory effects in seed germination and seedling growth of wheat (<i>Triticum aestivum</i> l.)	Ionela Cătălina Vasilachi, Mihaela Roșca, Mariana Minut, Petronela Cozma, Maria Gavrilescu "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor





		Simionescu" Faculty of Chemical
		Engineering and Environmental
		Protection
		(Environmental engineering)
		Roxana Zaiţ (Galan), Brindusa
	Priority pollutants monitoring in the Siret River Basin, Romania	Mihaela Sluser, Carmen Teodosiu
		"Gheorghe Asachi" Technical
13.45-14.00		University of Iasi, Romania, "Cristofor
13.43-14.00		Simionescu" Faculty of Chemical
		Engineering and Environmental
		Protection
		(Environmental engineering)
14.00-15.00	Lunch	

Parallel Session 3.4: Thursday, 20 May, 11.15-13.45

Section 3. Civil engineering and installations

Chairperson: Prof.dr. Petru Mihai

Time	Oral presentation	Authors
11.15-11.30	Research on the monitoring of earth dams with GNSS technology	Ioana Agapie Mereută, Mihail Luca, Paul-Marian Gherasim "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
11.30-11.45	Aspects regarding the special tracking of the dams	Andrei Berindean, Ion Giurma, Alexandru Topolniceanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
11.45-12.00	Theoretical analysis regarding groundwater movement	Magdalena Chelaru "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
12.00-12.15	Non-invasive research mehotds in investigationg and interpretation areas with archaeological potential affected by the road infrastructure. Case study the bypass Bacău (Bacău county, RO)	Ana Cretu, Radu Pîrnău, Andrei Asăndulesei "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)





12.15-12.30	Considerations on floods in the Prut Bârlad Basin	Violeta Dominte Croitoru, Luca Mihail "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
12.30-12.45	Efficient adaptation to rising flood risk	Adelina-Cristina Cucuteanu, Clarisa Paraschivescu, Ion Giurma "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
12.45-13.00	Study of the hydraulic characteristics of the soil	Gabriela Damian Dorin "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
13.00-13.15	Considerations regarding the current status of wastewater treatment plants	Cozmin Drăgoi Chislingher "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
13.15-13.30	Studies and research regarding debitmetry management from water supply systems	Ioan Vladut Apetroi, Mihail Luca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
13.30-13.45	Importance of ecological education at academic level in regards to the environmental protection quality	Anamaria Jijian, Mihai Dima "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)





Parallel Session 4.4: Thursday, 20 May, 11.15-13.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Daniela Popescu

Time	Oral presentation	Authors
11.15-11.30	Profiling of the generating rack of an ordered curl known in discreete form by the virtual pole method	Georgiana-Alexandra Morosanu, Virgil-Gabriel Teodor, Nicolae Oancea "Dunărea de Jos" University of Galati, Romania (Industrial engineering)
11.30-11.45	Critical analysis of the methods for evaluation of the seismic effect generated in blasting works	Doru Anghelache, Bogdan Garaliu- Buşoi, Marian Ticu University of Petrosani, Romania (Industrial engineering)
11.45-12.00	Management of the educational approach of the chemical engraving process	Carmen Botezatu, Adelina Hriţuc, Ionuţ Condrea, Bogdan Oroian, Marius Boca, Laurenţiu Slătineanu "Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Industrial Management (Industrial engineering)
12.00-12.15	Preliminary approach in the study of the process of manufacturing by electrochemical erosion	Daniela Gabriela Ciobanu Iorgoaia "Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Industrial Management (Industrial engineering)
12.15-12.30	Ordering the influence factors of the end milling process	Ionut Condrea, Adelina Hriţuc, Bogdan Oroian, Marius Boca, Carmen Botezatu, Laurenţiu Slătineanu "Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Industrial Management (Industrial engineering)
12.30-12.45	Influence of nozzle parameters in 3D printing under the manufacturing time	Vasile Ermolai, Alexandru Ionuț Irimia "Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Industrial Management (Industrial engineering)





12.45-13.00	Differences between the mass of the component obtained on the 3d printer and the mass of the component resulting from the mathematical calculation of the printer software	Alexandru-Ionut Irimia, Vasile Ermolai "Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Industrial Management (Industrial engineering)
13.00-13.15	Container for testing the operation of electromechanical devices when changing experimental conditions	Bogdan Oroian, Laurențiu Slătineanu, Ionut Condrea, Carmen Botezatu, Adelina Hrituc "Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Industrial Management (Industrial engineering)
13.15-13.30	Contributions regarding the elaboration of the technical decision of choosing a device for cold plastic deformation by rolling, using the theory of utilities	Madalina-Cristina Popa "Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Industrial Management (Industrial engineering)
13.30-13.45	Fixture devices used for aerodynamic profiles	Bogdan Cătălin Soreanu, Madalina-Cristina Popa "Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Industrial Management (Industrial engineering)
14.00-15.00	Lunch	

Parallel Session 1.5: Thursday, 20 May, 15.00-16.45

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof.dr. Cristian Fosalau

Time	Oral presentation	Authors
15.00-15.15	Aspects regarding the use of electronic power devices in power grid	Marian Atănăsoaei "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Energy engineering)
15.15-15.30	Photovoltaic systems maximum power point tracking algorithms	George Cercel, Cosmin Tiganasu, Ciprian Nemes "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of





		Electrical Engineering, Energetics and Applied Informatics (Energy engineering)
15.30-15.45	A decision-making methodology to replace the aging transformers from the electric distribution networks considering the penetration degree of the prosumers	Ecaterina Chelaru "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Energy engineering)
15.45-16.00	Optimal operation of a trigeneration system designed to supply an electricity, heat and cold consumer	Eugen Hopulele ^{1,2} , Mihai Gavrilaș ¹ 1"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics 2"Stefan cel Mare" University of Suceava, Romania (Energy engineering)
16.00-16.15	Smart charging of multiple EVs in smart grid radial low voltage distribution networks	Alexandru Kriukov, Mihai Gavrilas "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Energy engineering)
16.15-16.30	Phase load balancing algorithm based on a coordinated control of the prosumers in the active distribution networks	Livia Noroc "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics
10 30-10 43	An overview of home energy management concept	Cosmin Tiganasu, George Cercel, Ciprian Nemes "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Energy engineering)
16.45-17.00	Coffee Break	

Parallel Session 2.5: Thursday, 20 May, 15.00-16.45

Section 2. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Prof.dr. Daniela Suteu

Time	Oral presentation	Authors
15.00-15.15	Study on the design of a hydrogel for a controlled drug release of a from a textile surface to the human pathological skin	Laura Lu Cuturicu, Ciprian Vasile Macarel, Vlad Rotaru, Cezar Doru Radu





		Tugi
		"Gheorghe Asachi" Technical
		University of Iasi-Romania, Faculty of
		Industrial Design and Business
		Management
-		(Chemical engineering)
		Vlad Rotaru , Ciprian Vasile Macarel,
		Laura Lu Cuturicu, Cezar Doru
		Radu
15.15-15.30	Inorganic porous structures applied on	"Gheorghe Asachi" Technical
13.13-13.30	medical textiles	University of Iasi-Romania, Faculty of
		Industrial Design and Business
		Management
		(Chemical engineering)
		Ioana Luiza Horciu, Alexandra
		Cristina Blaga, Carmen Zaharia,
		Daniela Şuteu
	Valorization of residual biomass as	"Gheorghe Asachi" Technical
15.30-15.45	biosorbent for the removal of reactive	University of Iasi, Romania, "Cristofor
	dyes from aqueous media	Simionescu" Faculty of Chemical
		Engineering and Environmental
		Protection
		(Chemical engineering)
-		Eugenia Corina Ignat, Gabriela
		Carja
	Studies on the structural characteristics	"Gheorghe Asachi" Technical
	and nanoarhitectonics of	University of Iasi, Romania, "Cristofor
15.45-16.00	gallium/layered double hydroxides	Simionescu" Faculty of Chemical
	heterostructures	Engineering and Environmental
		Protection
		(Chemical engineering)
		Georgiana Mardare Balusescu,
		Teodor Malutan
		"Gheorghe Asachi" Technical
	An overview based on extraction	University of Iasi, Romania, "Cristofor
16.00-16.15	techniques of bioactive compounds	Simionescu" Faculty of Chemical
	from vegetal biomass	Engineering and Environmental
		Protection
		(Chemical engineering)
		Andreea Mihăilă, Cătălin Lisa, Ioan
		·
		Mămăligă, Gabriela Lisa "Gheorghe Asachi" Technical
16.15-16.30	Evaluation of the drying process of	1
	some varnishes and paints applied on	University of Iasi, Romania, "Cristofor
	fir wood	Simionescu" Faculty of Chemical
		Engineering and Environmental
		Protection (Chaminal and an aring)
	D P C C C C C C C C C C C C C C C C C C	(Chemical engineering)
16.30-16.45	Prediction of latent tuberculosis	Andra Maria Mircea ¹ , Florin Leon ² ,
10.50 10.15	reactivation in patients with rheumatic	Elena Rezuș ³ , Silvia Curteanu ¹





	disorders using machine learning	"Gheorghe Asachi" Technical
	algorithms	University of Iasi, Romania, "Cristofor
		Simionescu" ¹ Faculty of Chemical
		Engineering and Environmental
		Protection, ² Faculty of Automatic
		Control and Computer Engineering
		³ "Grigore T. Popa" University of
		Medicine and Pharmacy of Iași-
		Romania
		(Chemical engineering)
	_	
16.45-17.00	Coffee Break	

Parallel Session 3.5: Thursday, 20 May, 15.00-16.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Assoc.Prof.dr. Rodica Harpa

Time	Oral presentation	Authors
15.00-15.15	Emotional intelligence and occupational stress, consequences in human resource management in industry	Camelia Angelica Dâmbean, Manuela Rozalia Gabor "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureş, Romania (Engineering and management)
15.15-15.30	Customer satisfaction important element of the growth and economic development of the a business - applicability in industry	Ioan David Legman, Manuela Rozalia Gabor "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureş, Romania (Engineering and management)
15.30-15.45	Bibliographic study on the use research on the management of the pre-school education institutions in Romania in the conditions of decisional autonomy	Liliana Aioanei, Mihaela Luminita Lupu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Engineering and management)
15.45-16.00	The importance of unlearning for the success new IT products in the Apparel Industry	Ana-Maria Apetrei Gulei "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Engineering and management)
16.00-16.15	A brief history of digital marketing: The evolution that started in the 1980s	Sebastian Bîrzu, Silvia Avasilcăi "Gheorghe Asachi" Technical University of Iasi, Romania,





		Faculty of Industrial Design and
		Business Management
		(Engineering and management)
		Bogdan Bologa
		"Gheorghe Asachi" Technical
16.15-16.30	Mobility and migration of human	University of Iasi, Romania,
10.13-10.50	resources	Faculty of Industrial Design and
		Business Management
		(Engineering and management)
		Mariana Cojocaru Ciobanu, Mihaela
16.30-16.45		Luminița Lupu
	Bibliographic approach regarding	"Gheorghe Asachi" Technical
	organizational integration of human	University of Iasi, Romania,
	resource with special needs	Faculty of Industrial Design and
	_	Business Management
		(Engineering and management)
16.45-17.00	Coffee Break	

Parallel Session 4.5: Thursday, 20 May, 15.00-16.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

Engineering and management

Chairperson: Assoc.Prof.dr. Irina Cristian

Time	Oral presentation	Authors
15.00-15.15	Development of the technical infrastructure for testing pyrotechnic articles	Cristian Cioara, Dan-Dumitru Pintilie, Doru Anghelache University of Petrosani, Romania (Industrial engineering)
15.15-15.30	Advanced reasearches for estimation and evaluation the caution level in taking decisions on diagnosis and prognosis of hearing impairment risk	Anton Darsy, Florian Stoian, Florin Vedinas, University of Petrosani, Romania (Industrial engineering)
15.30-15.45	Development of the it infrastructure for the estimation, on the basis of the chemical composition, of the properties that define explosive substances	Bogdan Garaliu-Buşoi, Ciprian-Ilie Jitea, Ciprian Mateiu University of Petrosani, Romania (Industrial engineering)
15.45-16.00	Modernization of the validation infrastructure of theoretical models through simulations and computerized modeling for the evaluation of safety parameters specific to explosives for civil use	Ilie-Ciprian Jitea, Bogdan Garaliu Buşoi, Ciprian Mateiu University of Petrosani, Romania (Industrial engineering)
16.00-16.15	The importance of the solid substance danger assessment for explosion risk	Ciprian Mateiu, Claudius-Andrei Popescu, Narcis-Nicolae Popa University of Petrosani, Romania (Industrial engineering)





16.15-16.30	Evaluation of human resources performance	Olga Miclea, Haralambie Vochiţoiu, Daniela Furdui University of Petrosani, Romania (Industrial engineering)
16.30-16.45	Occupational risk assessment in the use of pyrotechnic articles for professional use (category F4)	Dan-Dumitru Pintilie, Cristian Cioara, Camelia-Lavinia Unguraș University of Petrosani, Romania (Industrial engineering)
16.45-17.00	Coffee Break	

Parallel Session 1.6: Thursday, 20 May, 17.00-19.30

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof.dr. Marcel Istrate

Time	Oral presentation	Authors
	F	Marian - Bogdan Micu
		"Gheorghe Asachi" Technical
17.00 17.15	Nonintrusive electrical loads pattern	University of Iasi, Romania, Faculty of
17.00-17.15	determination	Electrical Engineering, Energetics and
		Applied Informatics
		(Electrical engineering)
		Alexandru Mitocaru, Danut
		Constantin Irimia, Alina Georgiana
		Baciu, Marian-Silviu Poboroniuc
17.15-17.30	Issues related to mobile robot control	"Gheorghe Asachi" Technical
17.13-17.30	by means of brain-computer interfaces	University of Iasi, Romania, Faculty of
		Electrical Engineering, Energetics and
		Applied Informatics
		(Electrical engineering)
		<u>Dragos Murgoci</u> ^{1,2} , Maricel Adam ¹
		¹ "Gheorghe Asachi" Technical
		University of Iasi, Romania, Faculty of
	Prior art domain study of the	Electrical Engineering, Energetics and
17.30-17.45	synchronous machine with variable	Applied Informatics
	geometry	² Vitesco Technologies @
		Electrification Technologies, Iasi,
		Romania
		(Electrical engineering)
		Andrei-Iulian Roman, Daniel Sticea,
17.45-18.00		Danut-Constantin Irimia, Marian-
		Silviu Poboroniuc
	New hardware and software interface	"Gheorghe Asachi" Technical
	for Grip Force Tracking System	University of Iasi, Romania, Faculty of
		Electrical Engineering, Energetics and
		Applied Informatics
		(Electrical engineering)





18.00-18.15	An application to estimate the potential of rooftop photovoltaic power generation for a residential building	Roman Nechifor Mădălina "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
18.15-18.30	Automated methods for searching optimal solution in street lighting design	Alexandru Viorel Rusu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
18.30-18.45	Evaluation of dielectric parameters of biological cells on the basis of broadband dielectric spectroscopy	Thomas Schreiner, Ina Țurcan, Marius Olariu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
18.45-19.00	Aspects regarding the specific number of outages in overhead power lines	Teona Solomon, Marcel Istrate "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
19.00-19.15	Use of RF electromagnetic environment assessment by means of fixed monitoring stations	Marius Vasile Ursachianu, Alexandru Salceanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
19.15-19.30	Estimation of the electromagnetic pollution in urban residential areas from city of Iasi using the national autonomous emf monitoring system	Marius Vasile Ursăchianu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)
19.30-19.45	Transient residual voltage influence on the dynamic load transfer	Florin Constantin Baiceanu, Florin Munteanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics (Electrical engineering)





Parallel Session 2.6: Thursday, 20 May, 17.00-18.15

Section 2. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Prof.dr. Daniela Suteu

Time	Oral presentation	Authors
	•	Iulia Nica Nebunu, Carmen Zaharia,
		Ramona Elena Tataru-Farmus,
		Daniela Şuteu
		"Gheorghe Asachi" Technical
17.00-17.15	Biosorbents from renewable resources	University of Iasi, Romania, "Cristofor
		Simionescu" Faculty of Chemical
		Engineering and Environmental
		Protection
		(Chemical engineering)
		Dorina Stanciulescu ^{1,2} , Doina Lutic ³ ,
		Gabriela Carja ¹
		¹ "Gheorghe Asachi" Technical
		University of Iasi, "Cristofor
	Effective treatment of bacteria polluted	Simionescu" Faculty of Chemical
17.15-17.30	wastewaters by heterostructuring	Engineering and Environmental
	nanoparticles of gold-silver with	Protection,
	layered double hydroxides	² Veolia Energy, Iasi, Romania
		³ "Al. I. Cuza" University of Iasi,
		Romania
		(Chemical engineering)
		Alexandra Tanasa, Daniela Şuteu
		"Gheorghe Asachi" Technical
	Decovery of levender wests as a	University of Iasi, Romania, "Cristofor
17.30-17.45	Recovery of lavender waste as a	Simionescu" Faculty of Chemical
	biosorbent	Engineering and Environmental
		Protection
		(Chemical engineering)
		Delia Turcov, Simona Barna,
	New dermato-cosmetic formulation	Daniela Şuteu
		"Gheorghe Asachi" Technical
17.45-18.00	using biologically active compounds	University of Iasi, Romania, "Cristofor
17.43-10.00	from indigenous natural resources	Simionescu" Faculty of Chemical
	from margenous natural resources	Engineering and Environmental
		Protection
		(Chemical engineering)
	Effects of cinnamon essential oil-based	Laura Chirilă ¹ , Alina Popescu ¹ ,
18.00-18.15	emulsions application on textiles for	Sabina Olaru ¹ , Angela Dănilă ² ,
16.00-16.13	medical field	Rodica R. Constantinescu ³ , Andreea
		Ţigău ¹ , <u>Cristina Grosu</u> ¹





¹ National Research & Development Institute for Textiles and Leather,, Bucharest, Romania
² "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, 29 Prof. Dr. Doc. Dimitrie Mangeron Blvd., 700050, Iasi, Romania
³ National Research & Development Institute for Textiles and Leather, Leather and Footwear Research Institute (ICPI) Division, 9 Bucharest, Romania (Chemical engineering)

Parallel Session 3.6: Thursday, 20 May, 17.00-18.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Antonela Curteza

Time	Oral presentation	Authors
17.00-17.15	Virtual organizing – current trend in the challenging situation of today	Viorica Comşa "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Engineering and management)
17.15-17.30	Sustainability versus sustainable development in literature review	Iulia Vasilica Costan, Ion Verzea "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Engineering and management)
17.30-17.45	Perception of organizational objectives in pubic services	Silvia Cretu, Mihaela Luminita Lupu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Engineering and management)
17.45-18.00	Management of pre-school education institutions - training and increasing staff quality	Vasilica Damaschin, Mihaela Luminita Lupu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Engineering and management)





18.00-18.15	Entrepreneurial university versus entrepreneurial education: a review of concepts and approaches	Andrei Gazea, Silvia Avasilcăi "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Engineering and management)
18.15-18.30	Business Associative Structures: success facilitator in the era of networking and digitalization?	Amalia Hulubei Georgescu, Silvia Avasilcăi "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Engineering and management)
18.30-18.45	Intelligent decisions for smart homes	Alina Camelia Paven ¹ , Marian Ion ¹ , George Căruţaşu ^{1,2} ¹ Politehnica University of Timişoara-Romania ² Romanian-American University, Bucharest, Romania (Engineering and management)
18.45-19.00	Influence of yarn architecture in simulating the impact with a sphere	Larisa Chiper Titire, George Ghiocel Ojoc, Viorel Totolici Rusu, Lorena Deleanu "Dunărea de Jos" University of Galati, Faculty of Engineering, 111 Domnească Street, Galați, 800201, Romania (Engineering and management)

Parallel Session 4.6: Thursday, 20 May, 17.00-18.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Leandru-Gheorghe Bujoreanu

Time	Oral presentation	Authors
17.00-17.15	Computerized assessment of the risk of terrorist attack at the level of an industrial location activated in the field of civil explosives	Narcis-Nicolae Popa, Claudius- Andrei Popescu, Vlad Lăutaru University of Petrosani, Romania (Industrial engineering)
17.15-17.30	Assessment of the risk of injury and/or occupational illness at the controlled demolition using explosive for civil use at civil/ industrial objectives	Florian Stoian, Robert Laszlo, Marioara Tulpan University of Petrosani, Romania (Industrial engineering)
17.30-17.45	Information security risk management in the context of its integration at the level of the general management system of economic operators acting in the potential explosive field	Florin Vedinas, Olga Miclea, Alexandra Offenberg University of Petrosani, Romania (Industrial engineering)





17.45-18.00	Traditional techniques and natural construction materials in Romania	Gherghescu Dragos Stefan "Ion Mincu" Architecture and Urbanism University, Bucharest, Romania (Materials engineering)
18.00-18.15	Comparison between the effect of molybdenum addition to aluminum grain refined by titanium plus boron on its hardness	Ahmad Al Awana ¹ , Laura Geambazu ¹ , Adnan. I. Zaid ² , Ioana Csaki ¹ 1" University Politehnica of Bucharest, Romania 2University of Jordan, Amman, Jordan (Materials engineering)
18.15-18.30	Failure modes of pumps' mechanical parts and coating solutions for wear problems	Cornelia Cîrlan Paleu, Corneliu Munteanu, Viorel Paleu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering (Materials engineering)
18.30-18.45	Application of hollow glass fibers structures as high pressure storage system for hydrogen	Raul-George Ciubotariu ¹ , Dan Eliezer ² , Corneliu Munteanu ¹ , Bogdan Istrate ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering ² Ben-Gurion University of the Negev, Beer Sheva, Israel (Materials engineering)





Friday, 21 May, 2021

PLENARY SESSION 3

Chairperson: Prof.dr. Alina-Adriana Minea

9.00-9.40	Polymer-based Nanocomposites. New Methods and Concepts	Prof.dr. Horia Iovu University Politechnica Bucharest, Romania
9.40-10.20	Research on an Emerging Area in STEM - Challenges, Progress and Prospects	Prof.dr. Sohel Murshed Instituto Superior Técnico, University of Lisbon, Portugal
10.20-10.30	Coffee Break	

Parallel Session 1.7: Friday, 21 May, 10.30-12.15

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Nicanor Cimpoesu

Time	Oral presentation	Authors
10.30-10.45	Recent research on Mg-based biodegradable alloys-review	Roxana O. Nastasă, Corneliu Munteanu, Bogdan Istrate "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering (Materials engineering)
10.45-11.00	A combined materials science and mechanical approach to the study of hydrogen embrittlement of structure materials	Andrei Ratoi ¹ , Dan Eliezer ² , Corneliu Munteanu ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering (Materials engineering)
11.00-11.15	Training procedure for developing free- recovery and work generating shape memory effect in bending, at Ti ₅₀ Ni ₄₅ Cu ₅ SMA lamellar specimens	Victor Daniel Apostol, Mihai Popa, Nicoleta-Monica Lohan, Leandru- Gheorghe Bujoreanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)





11.15-11.30	Analysis of the operating behavior of some mixtures: water, ionic liquid, nanoparticles	Elena Ionela Chereches, Marius Ionuţ Chereches "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
11.30-11.45	Studies on phase change materials improved with nanoparticles	Marius Ionut Chereches, Elena Ionela Chereches "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
11.45-12.00	Creep behaviour of a FeMn shape memory alloy	Lenuţa Ciurcă, Bogdan Pricop, Nicanor Cimpoeşu, Maricel Agop, Leandru-Gheorghe Bujoreanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
12.00-12.15	Nanotechnologies and nanomaterials used in heritage conservation and restoration: from red iron rust to black magnetite dust	Ilie Cojocariu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
12.30-13.00	Coffee Break	

Parallel Session 2.7: Friday, 21 May, 10.30-12.30

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Laurentiu Slatineanu

Time	Oral presentation	Authors
10.30-10.45	Researches on the integration of aesthetic perception in the ergonomic design of women 's clothing	Carmen-Melania Blejan, Antonela Curteza "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Industrial engineering)
10.45-11.00	The impact of 3D design technologies on the development of Made-to-Measure clothing products	Victoria Bocancea, Carmen Loghin "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Industrial engineering)





11.00-11.15	Analysis of the assortment of products for people with lower limb amputations (current stage)	Elena Florea-Burduja ^{1,2} , Aliona Raru ^{1,2} 1"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management 2" Technical University of Moldova, Chisinau, Rep. of Moldova (Industrial engineering)
11.15-11.30	The impact of physical development of premature babies on designing functional clothes	Victoria Danila ^{1,2} , Antonela Curteza ¹ ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management ² " Technical University of Moldova, Chisinau, Rep. of Moldova (Industrial engineering)
11.30-11.45	Study of the equipment used in the Neonatal Therapy Unit for the development of functional clothing for premature babies	Victoria Danila ^{1,2} , Antonela Curteza ¹ ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management ² " Technical University of Moldova, Chisinau, Rep. of Moldova (Industrial engineering)
11.45-12.00	Human body vibration. Study about the influence of knitted structures parameters against the negative effects of the phenomenon	Cristina Grosu ^{1,2} , Mirela Blaga ¹ 1"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management 2National R&D Institute for Textile and Leather, Bucharest, Romania (Industrial engineering)
12.00-12.15	Study of green deal neutral climate targets with respect to carbon dioxide emissions in the european union	Andreea Nistorac "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Industrial engineering)
12.15-12.30	Electronic textiles as potential functional products for people with special needs	Bogdan-Alexandru Pântescu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Industrial engineering)
12.30-13.00	Coffee Break	





Parallel Session 3.7: Friday, 21 May, 10.30-12.30

Section 3. Civil engineering and installations

Chairperson: Prof.dr. Petru Mihai

Time	Oral presentation	Authors
10.30-10.45	Watershed delineation in flat urban areas using GIS techniques	Anca Dănilă, Ioan-Corneliu Marţincu, Raluca Giurma-Handley "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
10.45-11.00	Probabilistic methods for determining flood waves	Clarisa Paraschivescu, Ciprian Vorovei, Raluca Catrinel Giurma- Handley "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
11.00-11.15	Analysis of torrential rainfall and automatic monitoring of the rainfall regime in the catchment of the Slanic River, Bacău County	Clarisa Paraschivescu ¹ , Cosmin Marian Paerele ² , Marius Telişcă ¹ 1"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering 2Romanian Waters Administration, Bacau Water Directorate, Bacau, Romania (Civil engineering and installations)
11.15-11.30	The dissolved oxygen concentration (DO) from an A2/O bioreactor supplied with counter current oxygen	Costel-Cătălin Prăjanu, Florian Stătescu, Daniel Toma, Cristina-Mihaela Vîrlan Toma "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
11.30-11.45	Initial data analysis for establishing the agricultural cadastral system in straseni district, Republic of Moldova	Sergiu Popescu, Mihail Luca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
11.45-12.00	Ecological state considerations of Moldova river in the Cordun area	Paul Vivian Sion, Mihail Luca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of





	Hydrotechnical, Geodesy and
	, ,
	Environmental Engineering
	(Civil engineering and installations)
	<u>Stefan-Andrei Sticea</u> , Mihail Luca
	"Gheorghe Asachi" Technical
Studies and research on water losses	University of Iasi, Romania, Faculty of
from irrigation systems	Hydrotechnical, Geodesy and
	Environmental Engineering
	(Civil engineering and installations)
Pressure management for leakage reduction in water distribution systems	Ionuț-Emilian Todirică, Raluca
	Giurma-Handley
	"Gheorghe Asachi" Technical
	University of Iasi, Romania, Faculty of
	Hydrotechnical, Geodesy and
	Environmental Engineering
	(Civil engineering and installations)
Coffee Break	
	from irrigation systems Pressure management for leakage reduction in water distribution systems

Parallel Session 4.7: Friday, 21 May, 10.30-12.30

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Mirela Blaga

Time	Oral presentation	Authors
10.30-10.45	Bibliographical study regarding research strategies, recruitment, selection and integration of employees in project teams in the realization of the Human Resources Management of the projects, as integrated management in the Human Resources Management in universities	Monica Jidoi Toplicean, Mihaela Luminita Lupu "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)
10.45-11.00	Necessity and limitations of robotics in manufacturing systems in the clothing industry	Emil-Constantin Loghin, Ion Verzea "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)
11.00-11.15	Organizational agility: implications, significance and paradox	Letitia C. Lucescu, Silvia Avasilcăi "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)





		Renata-Mihaela Marin
	Critical analysis of the models of	"Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of
11.15-11.30	organizing the civil status activity in	Industrial Design and Business
	Romania	Management Design and Business
		(Engineering and management)
		Gabriela-Livia Mitrea Curpanaru
		"Gheorghe Asachi" Technical
11 20 11 45	The role of school managers in	University of Iasi-Romania, Faculty of
11.30-11.45	implementing the quality of education	Industrial Design and Business
		Management
		(Engineering and management)
		Gabriela-Livia Mitrea Curpanaru
		"Gheorghe Asachi" Technical
11.45-12.00	Application of Total Quality Management (TQM) in education	University of Iasi-Romania, Faculty of
11.43-12.00		Industrial Design and Business
		Management
		(Engineering and management)
		Samuel Mocanu, Silvia Avasilcai
	SWOT Analysis before and after a takeover – Case study Unicredit Bank Romania	"Gheorghe Asachi" Technical
12.00-12.15		University of Iasi-Romania, Faculty of
12.00-12.13		Industrial Design and Business
		Management
		(Engineering and management)
		Mihai-Viorel Munteanu
	The importance of maintenance in the circular economy	"Gheorghe Asachi" Technical
12.15-12.30		University of Iasi-Romania, Faculty of
		Industrial Design and Business
		Management
		(Engineering and management)
12.30-13.00	Coffee Break	

Parallel Session 1.8: Friday, 21 May, 13.00-14.15

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management

Chairperson: Prof.dr. Leandru-Gheorghe Bujoreanu

Time	Oral presentation	Authors
13.00-13.15	Structural aspects and chemical analyzes on cutting process of metal-ceramic materials	Marian Lutcanu ¹ , Bogdan Istrate ¹ , Margareta Coteață ¹ , Daniela Lucia Chicet ¹ , Iulian Ioniță ¹ , Ciprian Paraschiv ² , Bogdan Anton Prisacariu ² , Nicanor Cimpoeșu ¹ 1"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of





14.45-15.15	Closing ceremony	
	enhanced oils for automotive applications	Materials Science and Engineering (Materials engineering)
14.30-14.45	An overview of few theoretical and experimental studies on tribological and thermal behaviour of nanoparticle	Teodor Stanciu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of
14.15-14.30	Investigation on the properties of iron based biodegradable materials	Ana-Maria Roman, Nicanor Cimpoesu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
14.00-14.15	Magnetic pulse welding of dissimilar materials: A review	Narcis Nicolae Popescu, Marian Lozneanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
13.45-14.00	Study of the new ZnMgY alloy from a structural, chemical and mechanical point of view	Cătălin Panaghie, Nicanor Cimpoeșu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
13.30-13.45	Chemical and structural analysis of experimental biodegradable ZnMg alloy	Cătălin Panaghie, Adrian Alexandru, Iulian Ioniță, Vasile Manole, Ana-Maria Roman, Petronela Paraschiv, Nicanor Cimpoeșu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
13.15-13.30	Analyze of cutting effect on ceramic coated steels	Medicine and Pharmacy Iași, Romania Marian Luţcanu, Nicanor Cimpoeșu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering (Materials engineering)
		Materials Science and Engineering (Materials engineering) ² Grigore T. Popa" University of





Parallel Session 2.8: Friday, 21 May, 13.00-14.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

Engineering and management

Chairperson: Prof.dr. Mihăiță Horodincă

Time	Oral presentation	Authors
13.00-13.15	Life Cycle Assessment Studies on the end-of-life scenarios for textiles – A review.	Ajinkya Sudhir Powar ^{1,2,3,4} , Carmen Loghin ¹ , Stelian Sergiu Maier ¹ , Anne Perwuelz ² , Nemeshwaree Behary ² , Jinping Guan ⁴ , Guoqiang Chen ⁴ 1"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management 2Ecole Nationale Supérieure des Arts et Industries Textiles (ENSAIT), Roubaix, France 3 University de Lille, France 4 College of Textile and Clothing Engineering, Soochow University, Suzhou, China (Industrial engineering)
13.15-13.30	Textile products for people with disabilities by breast cancer (current stage)	Aliona Raru ^{1,2} , Elena Florea-Burduja ^{1,2} 1"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management 2"Technical University of Moldova, Chisinau, Rep. of Moldova (Industrial engineering)
13.30-13.45	New technological solutions for abdominal wall repair invasive medical devices development	Razvan Scarlat ^{1,2} , Mirela Blaga ¹ Theoremse Asachi Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management National R&D Institute for Textile and Leather, Bucharest, Romania (Industrial engineering)
13.45-14.00	Review on different types of clays and their use as antimicrobial agents for cosmetic textiles	Lucia-Oana Secareanu ^{1, 2} , Mirela Blaga ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management ² National R&D Institute for Textile and Leather, Bucharest, Romania





		(Industrial engineering)
14.00-14.15	Optimising the footwear by simulation and evaluation of the design parameters	Arina Seul, Aura Mihai, Antonela Curteza "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Industrial engineering)
14.15-14.30	Intellectual property rights regarding knitting processes or products	Eduard Ionut Stefan, Mirela Blaga "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Industrial engineering)
14.30-14.45	Performance characteristics of apparel for mountain rescue teams	Diana-Roxana Viziteu Tarași, Antonela Curteza "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management (Industrial engineering)

14.45-15.15 Closing ceremony

Parallel Session 3.8: Friday, 21 May, 13.00-14.30

Section 3. Civil engineering and installations

Chairperson: Prof.dr. Petru Mihai

Time	Oral presentation	Authors
13.00-13.15	Considerations regarding the land fund of the NE region of Romania	Alina Maria Toma, Florian Stătescu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
13.15-13.30	Prevention and flood protection in Prut river basin, through the implementation of a modern monitoring system with automatic stations	Alexandru Topolniceanu, Ion Giurma, Andrei Berindean "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
13.30-13.45	Data acquisition techniques for forest ecosystems	Veronica Muraru, Florian Stătescu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering





		(Civil engineering and installations)
13.45-14.00	Analysis of 55ehaviour of the water supply system in Iași City	Cristina-Mihaela Vîrlan Toma, Florian Stătescu, Daniel Toma, Costel-Cătălin Prăjanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnical, Geodesy and Environmental Engineering (Civil engineering and installations)
14.00-14.15	Conservation measures and highlighting the architecture of an historical monument: "Palatul Oștirii" of Iasi, Roma	Victor-Andrei Andrei, Liviu Groll, Livia-Ingrid Diaconu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)
14.15-14.30	Considerations of the biodegradation status of an historical monument, "Cazarma Artillery" of Brăila, Romania	Victor-Andrei Andrei, Livia-Ingrid Diaconu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering (Civil engineering and installations)
14.45-15.15	Closing ceremony	

Parallel Session 4.8: **Friday**, 21 May, 13.00-14.30

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

Engineering and management

Chairperson: Prof.dr. Mirela Blaga

Time	Oral presentation	Authors
13.00-13.15	An approach of recycling rubber waste with applications in industry	Florin Mustata, Antonela Curteza "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)
13.15-13.30	Industrial evolutions waves from 1.0 to 4.0- simmilarities, differencies and impact on society and human labor force	Luminita Cristina Simion, Silvia Avasilcai "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)
13.30-13.45	Bibliographic study on the use of communication in relation to the school relationship - coordinating institutions	<u>Nicoleta Slabu</u> , Mihaela Luminita Lupu





		"Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)
13.45-14.00	Analysis of a risk management model in the territorial administrative units	Daniela Solovăstru Ivan "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)
14.00-14.15	Advantages and disadvantages of the measuring methods of the organizational performance. A review	Mihaela Brindusa Tudose, Silvia Avasilcai "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)
14.15-14.30	Challenges of the virtual business environment as a result of cyberattacks. The role of scientific research in combating them	Cristian Vartolomei, Silvia Avasilcăi Daniela Solovăstru Ivan "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management (Engineering and management)
14.45-15.15	Closing ceremony	

SOME KEY FIGURES:

- **245 papers**
- participants from 11 countries (authors and coauthors)
- 40 universities, research and development institutes, companies





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