

20-22 MAY 2021
Palace of Culture - Iași



EUROINVENT

EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION

**>400
inventions
from
>30 countries**

www.euroinvent.org

EUROINVENT - European Exhibition of Creativity and Innovation was held online and on site. All the situation was adapted to the COVID-10 Pandemic. Euroinvent was held with the participation of over 500 registrations from 32 countries. The EUROINVENT Festival was officially opened on 20th of May and closed on 22nd of May 2021.

The EUROINVENT opening events were live on Facebook and in specific Exhibition areas with presence of special Guests - Prof.dr. Dan CAȘCAVAL - The Rector of Gheorghe Asachi Technical University of Iasi, The representative of Ministry of Research, Innovation and Digitization next to the official foreign delegates.

ORGANISERS



Europe Direct Iași



Romanian Inventors Forum



Alexandru Ioan Cuza
University of Iași



Gheorghe Asachi Technical
University of Iași

Under the aegis of



**UNDER THE PATRONAGE OF
MINISTRY OF RESEARCH, INNOVATION AND DIGITIZATION**



MINISTERUL CERCETĂRII,
INOVĂRII ȘI DIGITALIZĂRII



CONSILIUL JUDEȚEAN
IAȘI



PRIMĂRIA
MUNICIPIULUI
IAȘI

COORGANISERS



COMPLEXUL
MUZEAL
NAȚIONAL
MOLDOVA
IAȘI



INCDPM

National Institute for
Research and Development
in Environmental Protection

Bucharest, 294 Splaiul Independentei
Romania



ASSOCIATION FOR ECOLOGY AND SUSTAINABLE DEVELOPMENT



GRIGORE T. POPA UNIVERSITY OF
MEDICINE AND PHARMACY IAȘI

CEGeoGTech



UMAP

Romanian Academy Iași Branch, Commission for the Studies of Marketing Issues

TECHNICAL-SCIENTIFICAL, ARTISTIC AND LITERARY BOOK SALON "EUROINVENT"
organised in partnership with Academy of Romanian Scientists

EDUCATIONAL PARTNER

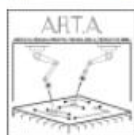


SUȘȚINEM EXCELENȚA
ANTRENĂM INTELIGENȚA
fundațiadanvoiculescu.ro

PARTNERS FOR INNOVATION



HOFIGAL



INTERNATIONAL PARTNERS

THE PATENTTM

Invention Magazine



EUROINVENT means:

- INVENTIONS, TECHNOLOGIES & RESEARCH EXHIBITION
- INTERNATIONAL CONFERENCE ON INNOVATIVE RESEARCH
- TECHNICAL-SCIENTIFIC ARTISTIC AND LITERARY BOOK SALON
- EUROPEAN VISUAL ART EXHIBITION
- WORKSHOPS

EUROINVENT

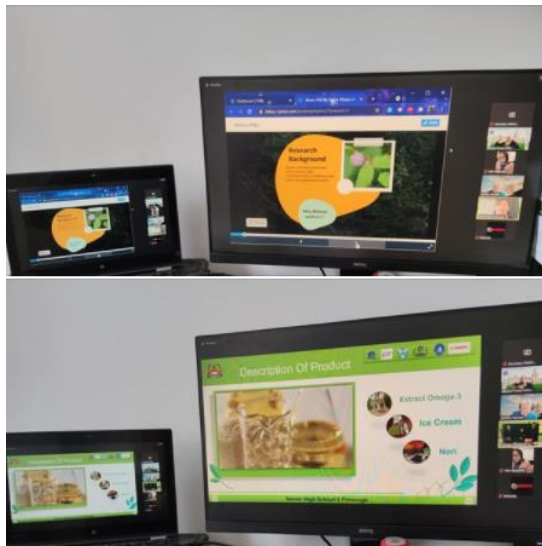
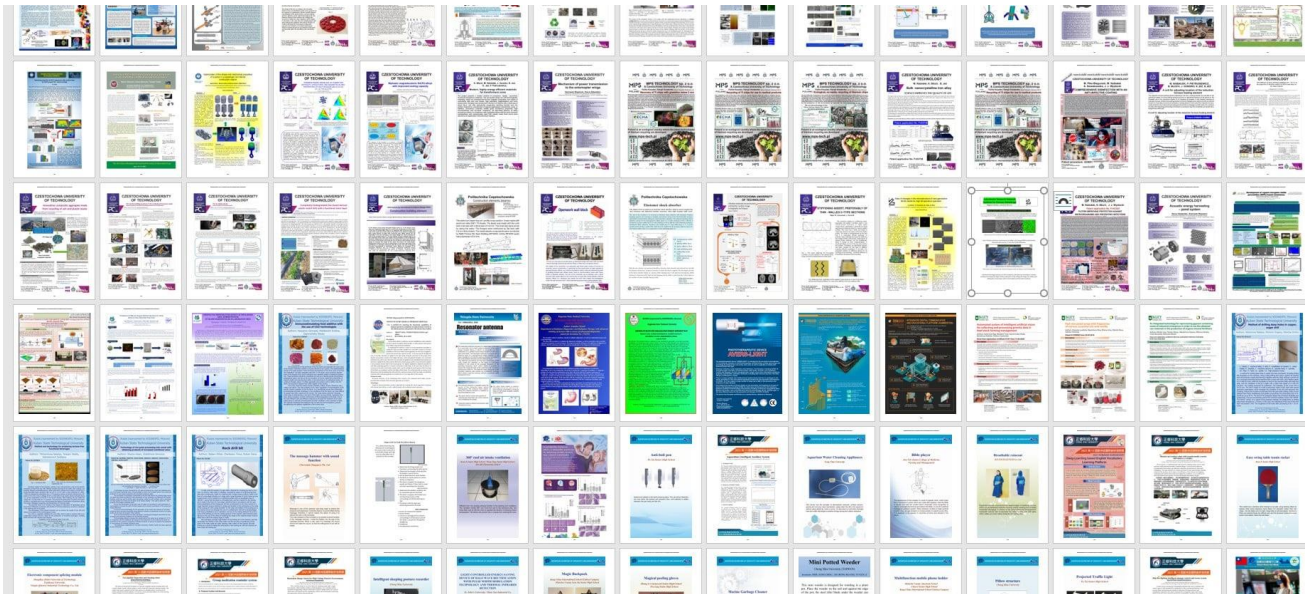
European Exhibition of Creativity and Innovation

The EUROINVENT was moderated by Andrei Victor SANDU - President of Romanian Inventors Forum.



The Judging took place in period 12-20 of May using Zoom and Google meet platforms and face to face presentation. The president of the Jury was Prof.dr. Mohd Mustafa Al Bakri ABDULLAH - University Malaysia Perlis.





Euroinvent
Published by Sandu Andrei Victor • 23 April •

Paradis College Iasi - Project:
Tsunami (Grade IV)



HYDROVASE by Malaysia Young Inventors #euroinvent2021
<https://www.youtube.com/watch?v=35CrkAUaEQQ>



AROMATIC GERANIOWAX CANDLE by Malaysia Young Inventors
#euroinvent2021
<https://www.youtube.com/watch?v=e1rF1VbGrEE>



EUROINVENT® INVENTIONS EVALUATION CHART

Jury member name: _____ **Signature** _____

	Invention no. / Country	Class	Novelty	Usefulness	Design	Low cost	WOW factor	Evaluation	Recommendation Award Gold/Silver/Bronze Medal
1	2	3	4	5	6	7	8	9	10
1									
2									

Please evaluate novelty, usefulness, design, low cost and WOW factor of each invention with:

1 (poor) - 2 (normal) - 3 (average) - 4 (good) - 5 (excellent)

Average score = column 9 = $(4+5+6+7+8)/5$

Bronze medal	Silver Medal	Gold Medal	Award
~2	3	4	>4

Award recommendations: **Grand Prize**, **Medicine Award**, **Green Environment**, Youngest Inventor, Oldest Inventor, The Woman Inventor, **Best Design Award**, Other Special Award, **Foreign Delegation Award**.

The Jury was formed by specialists in various branches. Each project was evaluated by two Jury members - one Romanian and the other International. All registrations were analyzed according to the Evaluation Chart on the following criteria: Novelty, Usefulness, Design, Low cost and WOW factor. The Specialist could also use other criteria as: Originality of the innovation, Scientific return/opportunities, Project feasibility, Potential users/ applications, Risk management, Market opportunities/ Threats, Social & economical impact.



The inventions and research projects were awarded with medals, awards or special prizes from the official delegates.

Also awards were offered for the outstanding publications at the Scientific Book Salon and at Art Exhibition.



All catalogues are available at:

<http://www.euroinvent.org/archive/catalogues/>

Other media link are here:

<http://www.euroinvent.org/archive/media/>

Conference info are available here:

<http://www.euroinvent.org/conference/>

The GRAPE KING BIO Taiwanese company with the project A *Lactobacillus rhamnosus* GKLC1, a composition and its use for improving alcoholic injury in liver, stomach and intestine was very popular when was presented, many companies and will start a cooperation with Romanian Inventors Forum.

Over 10.000 individual visitors were present both on site (in live exhibition) and online for the 2021 Edition of EUROINVENT.

STATISTICS

Total number of the Exhibited inventions and Project

630

Total number of Judged registrations

611

Total number of participating countries

32

Australia, Bulgaria, Cambodia, Canada, China, Croatia, Hong Kong, India, Indonesia, Iran, Japan, Jordan, Korea, Lebanon, Macau, Macedonia, Malaysia, Morocco, Moldova, Philippines, Poland, Qatar, Romania, Russia, Singapore, Sudan, Taiwan, Thailand, Turkey, Ukraine, United States of America, Vietnam

Percentage of international inventions

56%

Percentage of national inventions

44%

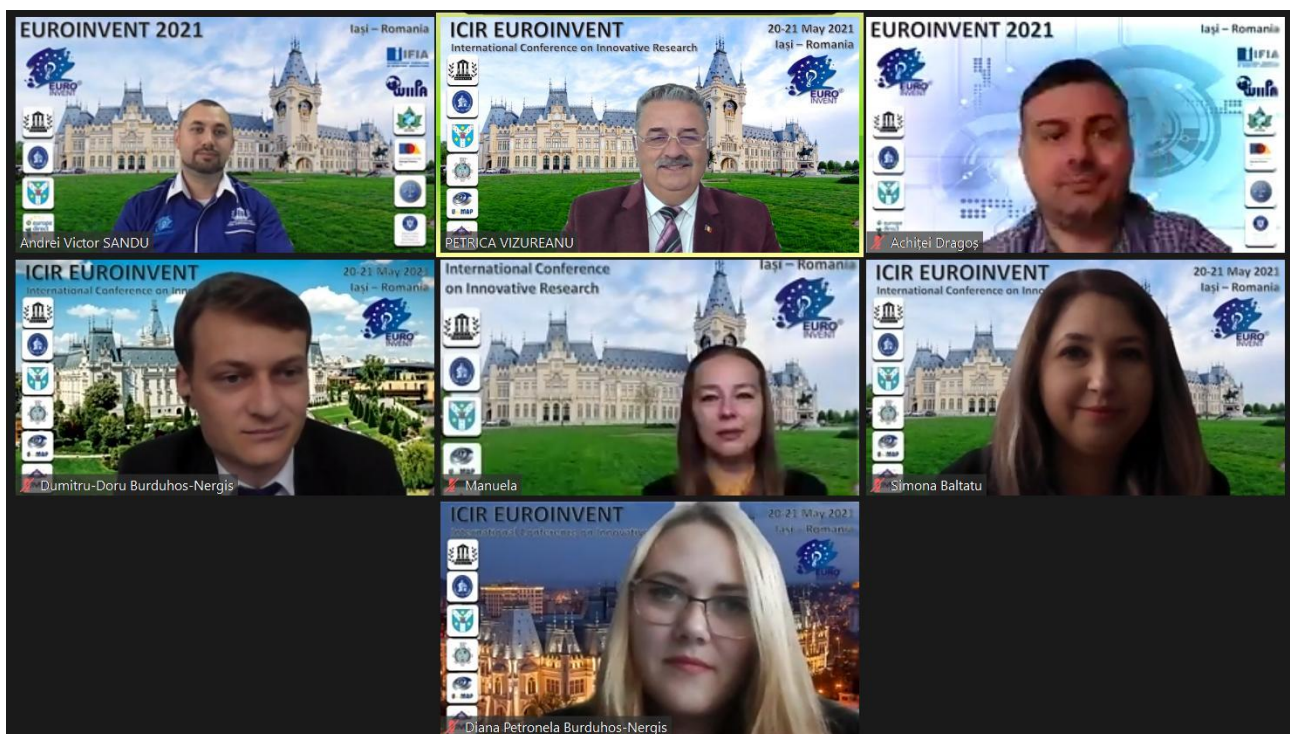
EXHIBITS CLASSIFICATION

- | | |
|--|--|
| 1. Environment - Pollution Control | 9. Chemical and Textile Industry |
| 2. Energy and sustainable development | 10. Information Technology and Communication |
| 3. Agriculture and Food Industry | 11. Printing and advertising |
| 4. Medicine - Health Care - Cosmetics | 12. Safety, protection and rescue of people |
| 5. Industrial and laboratory equipments | 13. Sports, Games and Leisure |
| 6. Mechanical Engineering - Metallurgy | 14. Other |
| 7. Buildings and Materials | X. Innovative Research |
| 8. Aviation, car industry and transportation | |



EUROINVENT

“Where great ideas talk about our future”





20-21 of MAY 2021 - 7th edition ICIR EUROINVENT

EUROINVENT International Conference on Innovative Research (ICIR) brings yearly leading researchers, engineers and scientists who present actual research results in the field of Materials Science and Engineering.

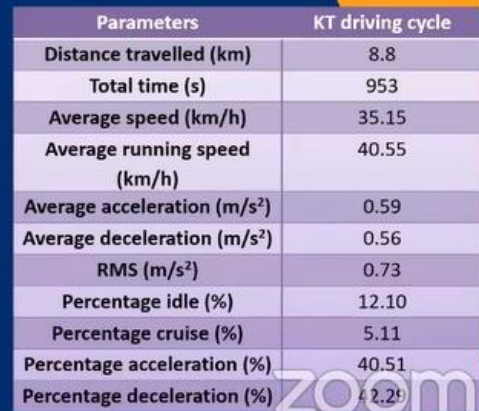
The conference aims to provide a high level international forum for researchers, engineers and scientists to present their new advances and research results in the field of materials science and engineering.

The Conference was opened with the welcome speeches from the organizers, followed by Keynote Speaker Sessions of some outstanding scientists in the field of Materials Science.



Prof.dr. Petrica VIZUREANU, chairman of ICIR EUROINVENT

Results and disc



Best Oral Presentation



KEYNOTE SPEAKERS



Marcelo Henrique Prado da Silva

Associate Professor
Military Institute of Engineering – IME,
Rio de Janeiro, Brazil

Adam Zieliński

Professor PhD.Eng.
Managing Director
Łukasiewicz Research Network
Institute for Ferrous Metallurgy, Poland

ICIR EUROINVENT 2021

International Conference on Innovative Research



INVITED SPEAKERS



Abdul Rahman SALISA

Associate Professor PhD
Faculty of Ocean Engineering Technology and Informatics
Universiti Malaysia Terengganu, MALAYSIA



Julia MIRZA-ROSCA

Professor PhD
Department of Mechanical Engineering
University of Las Palmas de Gran Canaria, SPAIN

Dariusz GRZESIAK

Assistant Professor PhD
Faculty of Mechanical Engineering and Mechatronics
West Pomeranian University of Technology Szczecin, POLAND

ICIR EUROINVENT 2021

International Conference on Innovative Research

Iasi, Romania | 20-21 May 2021 www.euroinvent.org/conference



EUROINVENT

International Conference on Innovative Research

ICIR 2021

ORGANIZED BY:

- Romanian Inventors Forum
- Faculty of Materials Science and Engineering, Gheorghe Asachi Technical University of Iasi, Romania
- Centre of Excellence Geopolymer and Green Technology (CEGeoGTech), Universiti Malaysia Perlis (UniMAP)
- ARHEOINVEST Platform, Alexandru Ioan Cuza University of Iasi

CO-ORGANIZED BY:

- Czestochowa University of Technology, Czestochowa, Poland
- School of Fundamental Science, Universiti Malaysia Terengganu
- Malaysian Research & Innovation Society (MyRIS)
- International Federation of Inventors' Associations - IFIA
- World Invention Intellectual Property Associations - WIIPA



During the Conference leading researchers, engineers and scientists will present actual research issues in the field of Materials Science and Engineering. International Conference on Innovative Research is a part of EUROINVENT, a complex event which brings together contributions of consecrated schools from higher education, academic research and also of individual researchers and inventors.

DEADLINES: Abstract 1 March 2021; Full article 30 March 2021.

All accepted papers from EUROINVENT 2021 International Conference on Innovative Research will be published, depending on topic of article in:

- *Coatings* (MDPI Publisher, IF 2.436 – Q2)
- *Acta Physica Polonica A* (IF 0.545)
- *Archives of Metallurgy and Materials* (IF 0.586)
- *IOP Conference Series: Materials Science and Engineering* (Scopus)
- *European Journal of Materials Science and Engineering* (CAB, DOAJ)
- *International Journal of Conservation Science* (WoS, Scopus)



All accepted papers from EUROINVENT 2021 International Conference on Innovative Research are published in *Coatings*, *Archives of Metallurgy and Materials*; *IOP - Journal of Physics: Conference Series*, *European Journal of Materials Science and Engineering*; *International Journal of Conservation Science* which covers the entire range of basic and applied aspects of the synthesis and characterization, modeling, processing and application of advanced engineering materials.

The topics of the conference were the followings:

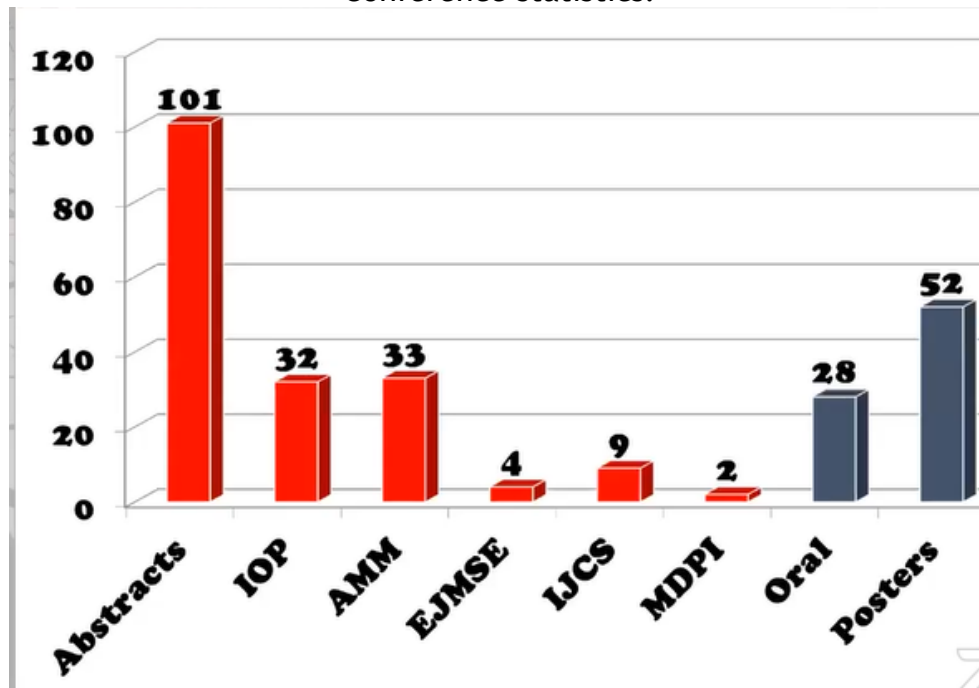
Section 1: Synthesis and Characterization of Materials Section

Section 2: Procedures and Technologies for Materials Engineering Section

Section 3: Materials Application Section

Section 4: Materials & Life Science

Conference statistics:



ICIR 2021 INTERNATIONAL CONFERENCE ON INNOVATIVE RESEARCH





Introduction

THE RANGE OF TESTS LUKASIEWICZ - IFM

Tests of materials for elements of power plants operated in creep conditions

Steels with a ferritic matrix after long-term service, often exceeding the design life

Steels with ferritic and austenitic matrix used in boilers with supercritical operating parameters

Nickel alloys for use in power boilers with an efficiency of over 50

welded joints of the same and different materials with a ferritic and austenitic matrix

- mechanisms of microstructure degradation (development of precipitations processes),
- determining the degree of exhaustion and the time of further safe operation,
- repair and assembly welding technology in modernization,
- improvement and development of new elements of methodology in this area,
- destruction processes and excessive loss of service life,



GRAND AWARD Winners

EUROINVENT Grand Prize - 10.000 LEI - Awarded By Senatul Stiintific

Intelligent orthosis in the correction of postural defects

LUCA Cătălina, ANDRITOI Doru, FUIOR Robert, CORCIOVĂ Călin

EUROINVENT Scientific Grand Prize - Awarded By Senatul Stiintific

Madalina Simona BALTATU - New biocompatible alloys for medical applications

EUROINVENT GRAND PRIZE

Technical University of Cluj-Napoca

Young Inventor Award	TINA PETROV (Mentor: MIRJANA PENDES) Skola za modu i dizajn Zagreb - FASHION KIT
Woman Inventor Award	Andreea HEGYI Valentina BULIMAGA
Performance in Education and Research	Technical University of Moldova
The Green Environment	INTEGRATED SYSTEM FOR THE RECOVERY OF THERMAL ENERGY BOTH SOLAR AND FROM THE COMPOSTING PROCESS, Ciupercă Radu, Zaica Ana, Nedelcu Ancuța, INMA Bucharest
Prize of Romanian Inventors Forum	ZVONIMIR VIDUKA, M SENSOR FOR MONORAIL TRAINS
Advances in Biology Award	Institute of Physiology and Sanocreatology, Republic of Moldova
MEDICINE AWARD	Moldovan Marioara, Oprean Radu, Saplonțai-Pop Aniela, Cristina, Prodan Doina, Saroși Liana Codruța, Silaghi-Dumitrescu Laura, Cuc Stanca, Agapescu Camelia, Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca & Babes Bolyai University, Cluj-Napoca, Natural antiplatelet agents based on Allium cepa L. extract used in primary cardiovascular prevention
„Alexandru Ioan Cuza“ University of Iași	Norton University, Cambodia
„Gheorghe Asachi“ Technical University of Iași Award	Universiti Malaysia Terengganu
CYBERLIFE AWARD	System and method for detecting active aircraft (drone) vehicles by deep learning analysis of sound and capture images, Catalin DUMITRESCU, Marius MINEA, Ilona-Madalina, COSTEA, Ionut-Cosmin CHIVA, Viviana-Letitia MINEA, Augustin SEMENESCU, University POLITEHNICA Bucharest
Pro Scientia et Innovatio Award	Ecological, no waste, recycling of titanium chips, Feliks Kusaiev, Siergii Arestenko, Marcin Nabiańtek, Jerzy Wyslocki
SYNERGY AWARD	National Institute for Research and Development in Microtechnologies (IMT-Bucharest)
International Delegation Award	Disaster prevention robot with transformable crawler, Fa-Shian Changl, Chang Hsu, Chih-Chung Hsu, Cheng Fang Chen, Jia Hong Wu, Guan-Yu L
Best Design Award	OFFICE SHELL model WIN, DARKO SPILJARIC, DIZZ CONCEPT d.o.o. Croatia
Exquisite Award	Politehnica University Timișoara
AgroFuture Award	Institute of Genetics, Physiology and Plant Protection, Republic of Moldova
Popularity Award	NOBLE WALKING STICK, KAYREN KIUNG ZIXIN, CHLOE CHENG XIAO CI, JADYN KONG QIAO YII, SIAO CHIN TZE, CHIENG LEY FONG

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