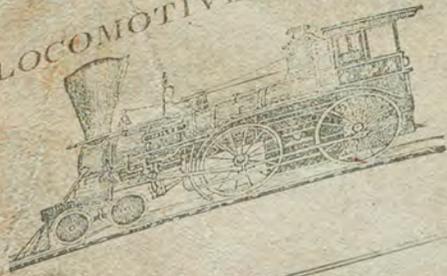


IFIA MAGAZINE

March 2022

No. 14

LOCOMOTIVE WORKS.



Railroad Record

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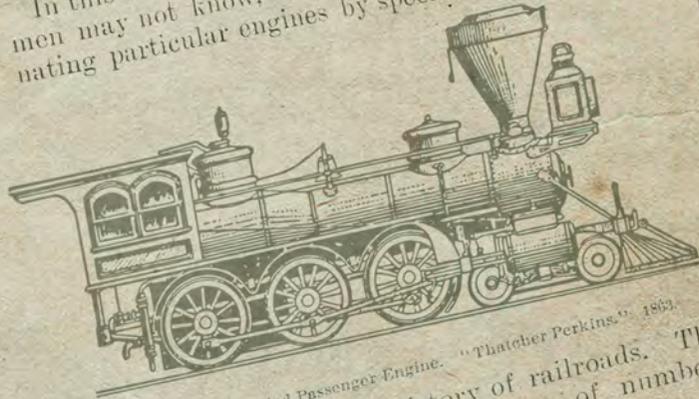
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EVOLUTION OF LOCOMOTIVE.

For these reasons, in my description of the evolution of the locomotive (and, indeed, of the machinery department generally), I shall strive to describe as nearly as I can the facts merely, without occupying too much space over important details of place, and without straining to determine to whom the fact first became apparent.

In this connection I will mention, what young men may not know, that the practice of designating particular engines by specific names was



First Ten-Wheeled Passenger Engine. "Thatcher Perkins," 1863.

followed in the early history of railroads. This has now given place to the use of numbers. Proceeding to details, let us first take up the cylinder. Surely there is nothing about the machine of greater importance than this. **CYLINDERS.**—The first locomotive designed by Trevithick, in 1803, had but one cylinder, placed horizontally on the inside. Up to 1826 the cylinders were placed vertically, half within the boiler. In 1826, when the engine "Experiment" was designed by George Stephenson for use on the Stockton and Darlington Railway, inclined





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Executive Editor :
Hossein Vaezi Ashtiani

Editorial Assistant :
Gaëlle Grosjean
Masoud Shafaghi
Masoud Tajbakhsh

Graphic Designer :
Roya Athari Esfahani

Publisher :
International Federation of
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IFIA-ABIPIR LATIN AMERICA OFFICE OPENED A PRESENTATION IN INDIA

It was officially launched by the President of IFIA, Dr. Alireza Rastegar, the Indian representation of the Latin American office of the International Federation of Inventors Associations – IFIA, and the International Innovative Brazil Inventors, Scientists and Entrepreneurs Association – ABIPIR (IFIA/ ABIPIR LATAM - Chapter India).

The initiative's main objective is to expand the action of the Latin American office of IFIA/ABIPIR located in Foz do Iguacu City – Brazil, strengthen relations with inventors, startups, academic-scientific community, and Governments of Brazil and India that already have a relationship of historical friendship, institutionalized by being part of the same BRICS economic bloc.

The intention is to implement partnerships and businesses, allowing cooperation and exchanges between higher education institutions of scientific research and innovation environments such as business incubators and accelerators, facilitating the commercialization of inventions and solutions created by startups between the 2 countries, and organizing online and presential events together.

The founder and President of ABIPIR and Director of IFIA in Latin America, Dr. Marcelo Vivacqua, thanked Mr. Anand Kanan, CEO of for his trust and partnership, the unconditional opinion of the President of the Indian Association of Inventors, Dr. Aynampudi Subbarao, and the President of IFIA, Mr. Alireza Rastegar.

Dr. Marcelo highlighted the exceptional work that has been developed under President Alireza Rastegar's administration over the past few years, having transformed IFIA into an organization known and respected as the most important in the innovation ecosystem in the world by organizing and supporting the most impactful initiatives linked to inventors, scientists, and entrepreneurs.





Special thanks to My Startup TV Director also was given, the only specialist in the segment in the world, for the warm welcome to the event and the distinguished presence of the founders and coordinators of the most important program to encourage and stimulate scientific education in the world, Ms. Juli and Mr. Jake, the Global Innovation Field Trip – GIFT, partner of IFIA and ABIPIR.

It's important to reinforce that IFIA/ABIPIR LATAM – Chapter India will not be a competitor of the Indian Association of Inventors. But both together will be able to help all the India Innovation Ecosystem than they could do alone, being a synergetic and win-win relationship.

All the parts are quite sure that the Inventors, Scientists, Entrepreneurs, Teachers, and Students will be benefited from this new enterprise.



THE INNOVATION WEEK IWA 2021 WAS HELD ONLINE ON SEPTEMBER, 08 TO 12 IN Morocco

The Innovation Week IWA 2021 was held online from 8th to 12th of September, under the honorary patronage of the International Federation of Inventors' Associations (IFIA) and with the main international partnership of the Oxford Business Group OBG (Research Partner), The Patent Magazine (International Media Partner), PQAI American Initiative (Artificial Intelligence), Sharjah Research Technology and Innovation Park (SRTIP), UAE (startup incubator), and sponsored by the First Institute of Canadian Inventors (FICI), Canada (Platinum sponsor).

Moreover, it should be mentioned that the success of this event is the result of the hard work and efficiency of IFIA members who joined OFEED's activities for many years and collaborate by making great efforts to preselect the most deserving participants, like NRCT in Thailand, and CAI in China, etc.

This year's edition, IWA 2021, received 83 finalists from 14 countries/regions and delivered 588 certificates, including 121 awards and 467 "Master of Innovation" certificates.

Gold, Silver, and Bronze Medal were attributed by the Artificial Intelligence engine and confirmed by the international jury of experts led by the head of the international jury Dr. Masoud Tajbakhsh. Among the top participating countries/regions: On one hand, Thailand, China, and Morocco received respectively 27, 23 and 14 awards; and on the other hand, India, Thailand and Taiwan, China received respectively 284, 72 and 22 "Master of Innovation" certificates.

The online award ceremony was held on September 12th, and other awards ceremonies were held physically in Thailand and India on September 16th, 2021:

In India, it was organized in Jabalpur, Madhya Pradesh, to honor certified participants and winners from India. Among key personalities from India who gave a speech and/or delivered the certificates to participants:



- The Minister of State for Water, His Excellency Prahlad Singh Patel.
- Smt. Nidhi Singh Rajput, CEO, Jabalpur Smart City Limited.
- Agranshu Dwivedi, Manager-Incubation at Jabalpur Smart City Incubation Center, Startup Mentor-MSME Madhya Pradesh.

The same day, an award ceremony was organized in Thailand to honor Thai Youth inventors who participated in the Innovation Week IWA 2020. Despite being the youngest in the entire competition, these Thai youth inventors, aged between 9 and 11, have won several awards during the Innovation Week IWA 2020, including Gold, Youth Grand prize, and Youth Best invention in the entire competition. Among key personalities who gave a speech and delivered the awards to youth participants:

- His Excellency Abdellah EL HOUSNI, the Ambassador of His Majesty the King of Morocco in the Kingdom of Thailand.
- Mr. Darm Boontham, Director-General, Department of South Asian, Middle East, and African Affairs, at the Thailand Ministry of Foreign Affairs.

Also, from the finalists of the Innovation Week IWA 2021, 22 requests were approved to join ICCD and start the commercialization process. In addition, the Innovation Week IWA 2021 event, as the best didactic event for inventors, broadcasted educational keynote speakers for 5 days, by 24 virtual experts powered by Artificial Intelligence, who discussed 47 Topics classified in 5 Panels of discussions:

- Panel 1: about Artificial Intelligence (5 topics)
- Panel 2: How to achieve progress by innovation? (21 topics)
- Panel 3: Trends of Inventions (10 topics)
- Panel 4: Popular inventions (5 topics)
- Panel 5: Introducing some concepts (6 topics)

Furthermore, an art show named “Children’s Anti-Epidemic Ideas, Spreading Wonderful Creativity” was organized in collaboration with the Chinese Association of Inventions (CAI), China, to share the creative work of children having 3 to 6 years old from China. The kids received “Little Hero of Creativity” awards.

Finally, it should be noted that this year, the Innovation Week IWA 2021 reached 60 participating countries and made echo in more than 200 press articles all around the globe in several languages.



ARCA 2021 WAS HELD IN ZAGREB 14 -16 OCTOBER 2021

ARCA 2021 Report

THE UNION OF CROATIAN INNOVATORS HOSTED A PHYSICAL INNOVATION EVENT (AGAIN)

The 19th International Exhibition of Inventions, ARCA 2021 was held in Zagreb 14.-16. October 2021.

ARCA 2021, The 19. International Exhibition of Inventions under the auspices of the **President of the Republic of Croatia, Mr. Zoran Milanovic**, was held in Zagreb 14. -16.2021. by The **Union Of Croatian Innovators (UIH)**.

This year's installment of the exhibition was traditionally supported by the Ministries of Economy and Sustainable Development; Science and Education, the Croatian Chamber of Economy, the University of Zagreb, and the Croatian Agency for SMEs, Innovation, and Investments. It should be of special notice is that this year's ARCA, although held in a somewhat reduced format, like the year before, still drew the attention of all national media. At the opening ceremony, Dr. Miljenko Simpraga, Vice-Rector for Innovations, Technology Transfer and Communications of the University of Zagreb, and the President of the Union of Croatian Innovators, underlined the necessity for the community of innovators, especially the R&D institutions, to pay more attention in the development of social inventions, in order to raise human behavior standards associated with answering the global challenges.

Having in mind that ARCA 2021 is listed as one of the Main IFIA Events, the number of presented innovations was significant, both presented by domestic Croatian inventors as well as international ones, mainly from Slovenia, Serbia, Bosnia-Herzegovina, Iran, Turkey, Northern Macedonia, China, and Poland. In total, around 200 innovations were exhibited.

A marked number of innovations presented were contributed by youth, comprising students of technical secondary education institutions, as well as university students. For the youth, including the youngest group of elementary school age, ARCA 2020 featured a





separate program of STEM workshops. Under the umbrella of ARCA 2021, a separate panel took place under the title “Innovation and Technology transfer – Boosting tools in the Croatian Economy,” dealing with challenges of innovative entrepreneurship in the newly arisen circumstances.

In addition to the usual gold, silver, and bronze awards, this year featured the presentation of the WIPO Awards for Innovation in the Youth and Senior categories. In the Youth category, the WIPO Award went to the innovation “Tic-Tac-Toe, Power Max” developed by the young innovators Branko Raickovic and Jan Ras-tovic. In the Senior category, the WIPO Award was awarded to the innovation “NUOTWO” developed by Mirko Brkljacic. The traditional IFIA Award went to the innovation “BVM8-Vi-bromonitoring- PCB” by Turbocom Ltd.





Empowering
Youth



(The GIFT)

IFIA AND ABIPIR ENCOURAGE THE FUTURE GENERATION OF INVENTORS AND SCIENTISTS

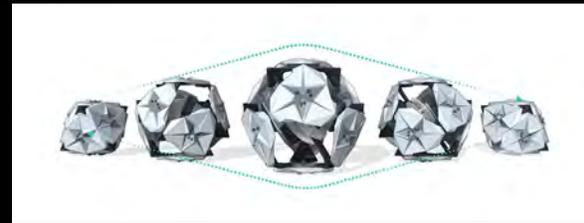
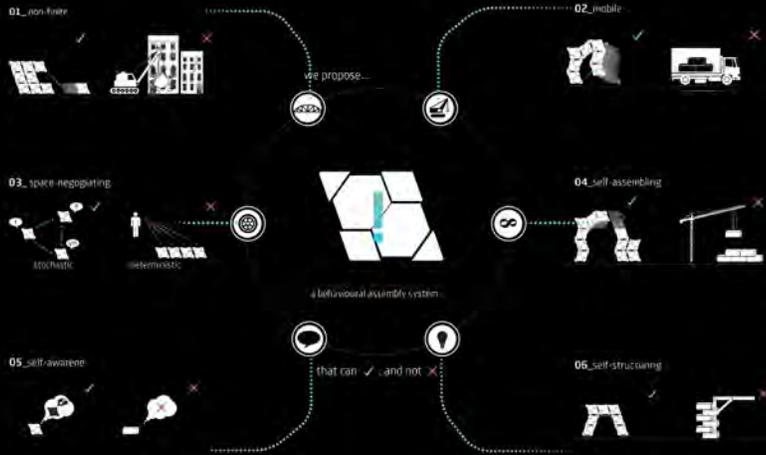
Another action by the **Latin American Office of IFIA/ABIPIR** facilitating the presentation of Espirito Santo projects representing Latin America at the Global Innovation Field Trip, the largest online scientific event on the planet with the participation of students from 8 to 18 years of age over 30 countries, always counting on the support of President Alireza Rastegar.

The presentation was co-hosted by the President of ABIPIR and Latin America representative of IFIA, Mr. Marcelo Vivacqua.

Mr. Luiz Gustavo Gomes, advising professor of the Student **Bruno de Lorenzo**, from EEEM Sister Maria Horta, presented **New astronomical discoveries and the leading role of the student with Autistic Spectrum Syndrome.**

Students supervised by Professor **Simone Clarindo** were: **Felipe Costa Kempim, Davi Alves, Arthur, Spinasse Miranda, Bernardo Angeli Teixeira**, who presented the **Ethos and Triex Medical Screening projects.**

CONGRATULATIONS to Professor Gustavo from EEEM Sister Maria Horta and Professor Simone Clarindo from State College of Espirito Santo for their dedication, commitment, and resilience to overcome all difficulties and keep the students motivated.



Milad Semyari

Master of architecture

Iran University of Science and Technology

A self-aware modular architectural system with the ability to navigate and adapt to the environment

The introduction of artificial intelligence into various scientific fields has led to the development and dramatic changes in these fields. Combining this concept with architecture has brought with it innovative and creative ideas. Architects are creating new concepts in this field by entering new fields and using them to achieve their goals. One of the great goals of architects in the 21st century is to create responsive and intelligent environments that act and react like living things. Spatial diversity and the ability to change and create various urban designs on the one hand and reduce the cost of construction, on the other hand, is the concern of builders today. With the arrival of humans in new places, there is a need for new construction methods in these places.

Milad Semyari is a master's student of architecture at Iran University of Science and Technology and an INV member of IFIA who has invented a modular system that consists of two parts: physical and software. The physical part is made up of homogeneous parts that are divided into two types, active and passive. These parts are movable and can move in the environment. The foot pattern is used in modeling the movement of these parts. This means that, like the foot, the two fixed parts and the knee between these parts are used for movement, the two post-pass parts provide the ability to move through the active part. Each of these active parts is designed through arms and uses its own geometry to make this movement possible. The energy of each of these parts is supplied by a lithium battery and each of these parts is made of degradable plastic. In the software part of this system, environmental data is collected through machine vision and sent to the CPU. Initially, the environmental design algorithm entered the CPU, and when faced with different environmental conditions, the system can use a variety of algorithms. In addition to existing algorithms, the CPU begins to generate new algorithms according to environmental conditions through machine learning and genetic algorithms.

This invention has won a gold medal at the International Invention Innovation Competition in Canada (ICAN), the silver medals at the Silicon Valley International Invention Festival (SVIIF), and the international exhibition of Inventions of Geneva. In this way, it is possible to achieve a living architecture and built environment that can learn and make appropriate decisions based on different circumstances, and finally, achieve a structure that behaves very similar to humans.

IFIA GENERAL ASSEMBLY REPORT – THIRTY-SIXTH SESSION

General Assembly, Thirty-Sixth Session - Nuremberg, Germany

Agendas

- 1-Opening of the session
- 2-Election of IFIA Exco candidates: IFIA Committee Members (2021-2022)
- 3-Report of IFIA's activities and financial reports from 01.10.2019 to 31.10.2021
- 4-Review of IFIA President election and president candidates criteria for 2022-2026
- 5-Review of IFIA Exco election for 2022 to 2024
- 6-Preparation of General Assembly meeting 2022
- 7-IFIA members propose
- 8-Closing of the session



Opening of the session

IFIA General Assembly, Thirty-sixth session hosted by iENA, was organized on Friday, 05 November 2021 in Messe Nürnberg, Hall 10, ATHEN Room, from 10 am to 12 pm with the participation of 48 members.

The meeting was opened by welcoming the participating members by President, Mr. Alireza Rastegar, and thanked the iENA organizers for hosting the event. The meeting was chaired by IFIA's president and two IFIA directors, Prof.Dr.Michal Szota and Mr. Zoran Barisic.

Election of IFIA Exco candidates: IFIA Committee Members (2021-2022)

42 nominees for IFIA Executive Committee were presented, and General Assembly members were requested to elect 25 members, cast their votes, and present them to the IFIA directors to act according to IFIA Statutes.

Then IFIA Directors counted the votes, and it was announced that 25 candidates were admitted as IFIA Executive Committee members for the period of 2021-2022 within the following details:

- 1- Brazil – International Brazil Innovative Inventors, Scientist and Entrepreneur, Mr. Marcelo Vivacqua
- 2- China – China Association of Inventions (CAI), Mr. Xuan Zengpei
- 3- Croatia – Union of Croatian Innovators, Mr. Zaran Barisic
- 4- Czech Republic – Czech Union of Inventors and Rationalizers, Mr. Mr. Lukas Zmeskal
- 5- Egypt – Egyptian Council for Creativity, Innovation Protection, Mr. Mahmoud A Hafez
- 6- Germany – German inventors Association “DEV”, Mr. Winfried Sturm
- 7- Iceland – Iceland Inventors Association, Mrs. Elinora Inga Sigurdardottir
- 8- India – Indian Innovators Association, Dr. Aynampudi Subbarao
- 9- Indonesia – Indonesian Invention and Innovation Promotion Association, Mrs. Megaria Agustina
- 10- Iran – First Institute Inventors and Researchers in Iran, Mr. Hossein Vaezi Ashtiani
- 11- Iraq – Iraqi Society of Inventors and Innovators, Mrs. Traiza Jasim Ridha
- 12- Korea – Korea Invention Promotion Association, Mr. Hyo Jeon
- 13- Lebanon – National Association for Science and Research, Dr. Radwan Chouaib
- 14- Morocco – OFFED, Mr. Majid Elbouazzaoui
- 15- Poland – Association of Polish Inventors and Rationalizers “SPWiR”, Mrs. Agnieszka Mikołajska
- 16- Portugal – Inventarium Science, Mr. Fernando Lopes
- 17- Qatar- Agri-Green Foundation, Mr. Adnan Al Naimi
- 18- Romania – Romanian Inventors Forum, Dr. Andrei Victor Sandu
- 19- Russia – Moscow Public City Organization of All Russian Society of Inventors, Mr. Dmitry Zezuylin
- 20- South Africa – Institute of Inventors and Innovators, Mr. Kenneth Hawksworth
- 21- Sri Lanka – Sri Lanka Inventors Commission, Prof. Rangika Halwatura
- 22- Thailand – Association of Thai Innovation and Invention Promotion, Assoc. Prof. Dr. Unchalee Sanguanpong
- 23- Turkey – Anatolian Inventions and Inventors Association, Mr. Koray Sahin
- 24- Ukraine – Junior Academy of Sciences of Ukraine, Dr. Yevhen Kudriavets
- 25- USA – United Inventor Association (UIA), Mr. John J. Calvert

Also, IFIA President suggested Mr. Winfried Sturm as the new IFIA Director, and all of the members accepted this suggestion without any negative vote.

Report of IFIA's activities and financial reports for 2019-2020

IFIA activity report covering the period from 2020 to 2021 was presented, informing the members about the projects undertaken to boost IFIA's performance in commercialization, patent protection, and promotion of clean technologies. It gained the approval of General Assembly members while appreciating the initiatives taken by IFIA President to develop IFIA at an international level. Next, the financial report from 01.10.2019 to 31.10.2021 was provided by IFIA Treasurer, Mr. Hossein Vaezi Ashtiani, and approved by the General Assembly members.



Review of IFIA President election and president candidates criteria for 2022-2026

Criteria for the new president's personality:

1. Who can well represent an international NGO like IFIA
2. International prestige
3. International acceptance
4. IFIA work background
5. Inventor activity (it is indicated by espacenet database)
6. Innovation activity (valuable results on the world market)
7. Good English writing and speaking
8. NGO leadership practice
9. Support of the IFIA organization in its own country
10. Guarantee for financial support for IFIA office by Governmental site (At least Five Hundred Thousand US Dollars Per Year)

The submitting application for the IFIA presidency candidates starts in February 2022 and will be announced to all IFIA members by the IFIA Secretariat.





Review of IFIA executive committee election for 2022 to 2024

IFIA Executive Committee nominees shall meet the following criteria:

1. Willingness and ability to afford the time and resources required for IFIA work
2. Possess the knowledge and capacity to contribute to IFIA's mission and strategy
3. Possess enough experience and knowledge about IFIA activities
4. Strongly participate in IFIA activities and meetings
5. Their association must be a member of IFIA
6. Inventor activity (it is indicated by espacenet database)
7. Innovation activity (valuable results on the world market)
8. Good English writing and speaking

The submitting application for the IFIA executive committee starts in February 2022 and will be announced to all IFIA members by the IFIA Secretariat.



Preparation of General Assembly Meeting 2022

The venue of the IFIA General Assembly 2022 was approved by a majority of members to be held in **Nuremberg, Germany, alongside iENA international invention fair in November 2022.**

IFIA Members Proposals

The first proposal was presented by Eng. Ahmed Abdullah Majjan from UAE Inventors Association. He presented UAE Inventors Association activities in the area of inventions and innovations **and requested to join IFIA as a full member from the United Arab Emirates, and his membership request was approved by a majority of vote by IFIA GA.**

The second proposal was presented by the **new president of The Swedish Inventor's Association (SUF), Mr. Jan-Erik Nowacki.** He presented SUF activities in the area of inventions and innovations and requested to re-join IFIA as a full member from Sweden, and his membership request was approved by a majority of vote by IFIA GA.

Next, Malaysia Innovation Association (MIA) request was presented by the IFIA President, which was received by IFIA Secretariat in September 2021.

MIA requested to join IFIA as a corresponding member from **Malaysia** and after reviewing **relevant documents, all GA members voted to Malaysia, Innovation Association (MIA) to become IFIA Corresponding Member.**

Likewise, **Sensifai bvba** request was presented by the IFIA President, which was received by IFIA Secretariat in November 2021.

Sensifai bvba requested to join IFIA as a Full Member from **Belgium**, and after reviewing **relevant documents, all GA members voted to Sensifai bvba to become IFIA Full Member.**

Finally, Mr. Husein Hujic's proposal was raised by IFIA director, Mr. Zoran Barisic, and the results concerning his proposal were considered by the members as follows:

1. IFIA Vice-President/s

According to IFIA Statutes, ARTICLE 11, The President and such person(s) as Directors, Secretary(ies), Treasurer, and **any other person the President deems necessary shall constitute IFIA Secretariat.**

2. Question about North Macedonia to become Executive Committee Candidate

The IFIA Secretariat has not received any formal request from North Macedonia in this regard.

3. Question about the Republic of Serbia

Serbia has been an official member of IFIA since many years ago as well as the membership Serbia was published on IFIA old website in the below link:

<http://www.invention-iffa.ch/countrie1.htm>

3.1. Updating sites of national associations

IFIA announces at the beginning of each year to all members to provide any modification and updating info to IFIA's secretariat for change and publish on the member's page.

Therefore, all IFIA members have obligated to send their activities and updating information to IFIA's secretariat at the beginning of each year.

4. Case of "Dr. Mladen Karic"

In the meeting, Mr. Mladen Karic announced that he was getting nominated by the President of Belgrade Association of Inventors, Mr. Djuro Borak (IFIA Full Member from Serbia), as a candidate for the Executive Committee. And according to the statute, the IFIA full members can nominate the person to IFIA as an executive committee candidate.

Closing of the session

The meeting ended with taking a memorial group photo of the participant's members.



#IFIA

WELCOME TO THE WORLD INNOVATIONS PLACE

SUCCESSFUL OUTCOME FROM THE IENA 2021 TRADE FAIR “IDEAS – INVENTIONS – NEW PRODUCTS”

iENA 2021 Report

Over the course of four days, over 350 inventions from 17 countries were showcased at the iENA Inventors' Fair at the Nuremberg Exhibition Centre. Inventors were able to hold productive discussions with investors, distributors, and consultants, and initial licensing talks could already take place on-site. The combination with the Nuremberg Innovation Congress and the “Hack & Make” Creative and Technology fair was very well received.

Nuremberg – In 2021, after a year's break, the iENA Trade Fair “Ideas – Inventions – New Products” could again display the exciting results of creative innovation processes. Owing to the international travel restrictions and uncertainties that still exist in many cases, iENA was smaller this year but by no means less successful for those inventors present. The inventors not only traveled from Germany – but also came to the iENA in Nuremberg from other countries, such as Korea, Croatia, and China, showing that international events are possible even in these times.

Although there were considerable external challenges in the lead-up, the project manager of the iENA, Sandra Hübner, gives a positive summary: “The 2021 iENA showed how fruitful and important live events are. The inventors presented their inventions – they were complex and needed explanation – and that simply works best in the form of a personal conversation. We're particularly pleased that many distributors, investors, and licensors came to the iENA and were interested in the inventions”, says Sandra Hübner.

The iENA stage programme offered professional inspiration and featured discussion panels where inventors talked about hurdles, challenges, and opportunities – as well as presenting their projects, innovations, and ideas – to an interested audience. The highlight for inventors this year was once again the iENA medal ceremony, where the best inventions are awarded prizes and honoured. Beforehand, an expert jury examined and evaluated each of the 350 inventions. The “iENA Grand Prize” went this year to Michael Könker with the Wen-

debank (turning bench). Youth inventors also brought promising inventions to Nuremberg: the Prize of the City of Nuremberg went to Niklas Senz, Rebecca Ritter, and Maria Messmer from the Schülerforschungszentrum (SFZ) Südwürttemberg for their rapidly biodegradable plastic films, and the European Inventors' Association AEI 2021 Grand Youth Prize went to Jan Heinemann with his Löschigel (extinguishing hedgehog), an invention developed as part of the "Jugend forscht" initiative. Korea was a partner of the iENA this year. And the Korean inventors from Sunmoon University were awarded the AFAG Messen und Ausstellungen GmbH prize for an information and guidance system for bus lines that they've developed.

Focus on the power of innovation with the iENA and Innovation Congress

The combination of trade fair and congress worked out well, and the synergies of the iENA Inventors' Fair and Innovation Congress were exploited effectively. This showed that congress attendees were also the right visitors for the iENA and were interested in the inventions and developments that were presented there. At the same time, some inventors and developers used the professional inspiration of the congress to develop themselves and their innovations more. The presentations at the Innovation Congress built on one another and resulted in exciting and lively discussion rounds afterward.

Hack & Make Creative and Technology festival

Hack & Make was well attended over the weekend: lots of creatives, tinkerers, and the curious were interested in the offerings presented by FabLab Region Nürnberg and its partners. Hack & Make showcased the ingenuity and possibilities of creatives who turn their ideas into reality. Visitors were able to marvel at many new creations and try out 3D printing and laser cutters for themselves on site. In addition to Siemens, other FabLabs from the region and other exhibitors from the "maker" scene were also involved. Planning for Hack & Make 2022 is already underway.

iENA 2022 – the outlook for the international inventors' fair

Next year, the iENA Trade Fair "Ideas – Inventions – New Products" will again be taking place on its traditional date, parallel to the consumer trade fair Consumenta. The Innovation Congress will be further expanded and partnerships consolidated for next year, and Hack & Make is also scheduled to run in parallel again. The iENA is expected to return to its usual international strength next year. The foundations for this have already been laid this year with the restart.



IWIS 2021 WAS HELD ONLINE ON OCTOBER 25-27 IN WARSAW, POLAND

IWIS 2021 Report

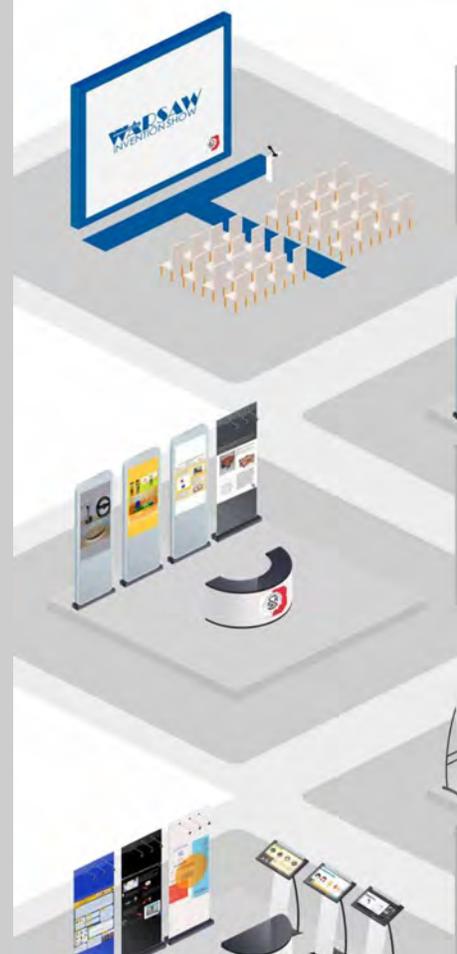
IWIS 2021 was held online on October 25-27 in Warsaw, Poland

This year due to Coronavirus (COVID-19) pandemic, the 15th edition of the International Exhibition of Inventions "IWIS 2021" was held ONLINE on October 25-27, for long-distance mode participants. The event was organized by the Association of Polish Inventors and Rationalizers in cooperation with the Patent Office of the Republic of Poland and the International Federation of Inventor's Association IFIA.

The exhibition IWIS 2021 was held under the auspices of the Minister of Education and Science. Among the patronage of this year's show were the European Association of Inventors (AEI) and the Polish Federation of Engineering Associations NOT.

IWIS is Poland's largest international exhibition dedicated to the promotion of invention and innovation. In the 15th edition of this festival, solutions from 25 countries, including Australia, Canada, Croatia, Egypt, Hungary, India, Indonesia, Iran, Iraq, Malaysia, Moldova, Philippines, Poland, Romania, Russian Federation, Saudi Arabia, South Korea, Syrian Arab Republic, Taiwan, Thailand, Ukraine, United States, and Vietnam were presented. Inventors presented more than 300 solutions in various fields of science, which are a review of technical achievements, some of which have found their place in the industry, and partly awaiting implementation.

Thanks to the financial support of the Ministry of Education and Science (under contract SONP/SP/461498/2020 by the Ministry of Education and Science allocated for scientific dissemination activities), the Association of Polish Inventors and Rationalizers have the opportunity to organize this year's exhibition IWIS which presented innovative solutions from more than 170 scientific entities (research institutes, colleges, and universities, also individual inventors). The International Jury awarded the exhibitors for their inventions following medals: gold, silver, and bronze. The main task of the International Exhibition of Inventions IWIS is to present the achievements of Polish scientists and inventors to national and foreign entrepreneurs and institutions. This creates the opportunity to establish commercial contracts for the implementation of innovations to the industry, which contributes to the growth of the Polish economy. Another important aim of IWIS is to promote innovative attitudes



and innovation-based perception of the world among young people, which can be the motor for taking on new challenges.

Members of the Jury of IWIS 2021 had a difficult task in selecting the best solution because each of them presented very high substantive and technological level. All solutions were classified according to 12 different categories ranging from ecology and environmental protection, mechanics, electronics, energy to medical solutions.

Finally, the Grand Prix IWIS 2021 went to Medical University of Gdańsk, Faculty of Medicine, Department of Orthopaedics and Traumatology from Poland for the invention „DEROtator R.PAN (Direct vertebral derotation in the surgical treatment of idiopathic scoliosis). The Semi Grand Prix IWIS 2021 went to King Abdulaziz University from Saudi Arabia for the invention named Artic Arm: Voice Controlled Artificial Arm.

World Competition of Chemical Inventions is the contest organized by the International Fed-

eration of Inventors' Association, IFIA, and Association of Polish Inventors and Rationalizers. During this year's exhibition, the 10th edition of the World Competition of Chemical Inventions has taken place.

The main prize of the 10th World Competition of Chemical Inventions went to Warsaw University of Technology, Faculty of Chemistry from Poland for the invention „In situ cross-linked spongy bone filling for non-invasive treatment of osteoporosis.”

In summary, the 15th International Warsaw Invention Show IWIS 2021 (ONLINE edition) was a great success. The event every year attracts more and more exhibitors and visitors. This year our online event was visited by almost 5200 visitors from 38 countries. We hope that the exhibition will result in a number of implementations of the presented inventions and innovations.

Congratulations to all participants of the exhibition.



1565
بنيان الحضارة
بالحكمة
2020-2021
The Future Museum

1565
بنيان الحضارة
بالحكمة
2020-2021
The Future Museum





250,000\$ WAS
AWARDED TO
SELECTED
INVENTORS IN
CIF 2021,
QATAR

Challenge and Innovation Forum 2021 Report

250,000\$ was awarded to selected inventors from all around the world in the Challenge and Innovation Forum. "CIF 2021"

After four days of physical exhibition and months of preparation and registrations, finally, the Challenge and Innovation Forum, CIF came to an end and is ready to come back in 2022 in Qatar. The Challenge and Innovation Forum (CIF 2021) is considered a unique event in The Middle East region under the patronage of IFIA. It included a number of competitions, events, and interactive science programs, aimed to motivate and encourage inventors from all over the world to participate in this huge event.

Accordingly, CIF presented some projects that reflected the roles of research, development, and innovation in achieving a knowledge-based economy. Also, the Challenge and Innovation Forum contributed to directing the attention of the international community to learn more about the latest developments in the fields of innovation and modern technologies.

CIF Qatar 2021 included two main competitions; Best Inventions and Hackathon.

The best inventions competition aimed to showcase individual inventors' projects for the first two days. And then, the participants were divided into groups where they competed to develop their unique ideas from scratch to a startup within just 48 hours with a total prize of 250,000\$.

In the invention exhibitions, the inventors showcased their invention in an exhibition-style event where they had a dedicated booth, and a group of judges evaluated the best ideas over the first two days.

After the inventions exhibition, the inventors were divided into eight teams in a hackathon-style competition for another two days.

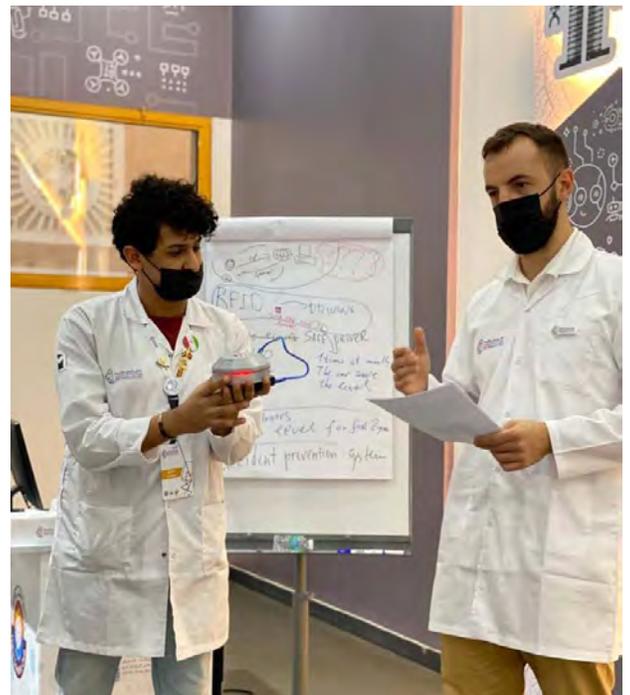
The registration opening of CIF 2021 opened on July 7th until September 10th. After that, the final list of participants who would compete physically in Doha was announced. In this matter, eighty-four inventors from 32 countries were accepted to showcase their projects and inventions in Qatar.

On November 7th, 2021, the Challenge and Innovation Forum started with the inventions



exhibitions for two days, and after that, The Hackathon continued the invention fair for another two days. On the last day of the Challenge and Innovation Forum on November 11th, the closing ceremony was held in the presence of many prominent people of Qatar and the field of invention and innovation. The minister of culture and sports of Qatar, Mr. Salah bin Ghanim Al Ali, the Director of Innovation and IP Office of Qatar University, Dr. Hareb Al-Jabri, and the President of the International Federation of Inventors' Associations, IFIA, Mr. Alireza Rastegar, were some of the people present at the closing ceremony. On this day, the Challenge and Innovation Forum came to an end, and the awards were granted to the selected inventors with a total prize of 250,000\$. Plus, traveling and accommodation expenses were covered under the supervision of IFIA by the hosting country, Qatar.

In conclusion, it is worth mentioning that because Qatar is going to host the following FIFA World Cup in 2022, we can assure you that the next Challenge and Innovation Forum, CIF 2022, will be more productive and will expand the culture of invention and innovation on a worldwide scale.



FORTY-SIX INV OFFICIAL MEMBERS FROM 20 DIFFERENT COUNTRIES RECEIVED THEIR CERTIFICATES IN QATAR

Forty-Six INV official members from 20 different countries received their certificates in Qatar.

As one of the forerunner organizations associated with invention and innovation, IFIA has always tried to appreciate the invention and innovation community. Because of that, The International Federation of Inventors' Associations, IFIA, has established the INV title to distinguish the members of the federation and will praise and honor the INV members to expand the culture of invention and innovation all around the world.

Accordingly, IFIA organized the First International INV Competition for inventors and innovators in July 2021, and more than 1650 inventions from around 35 countries enrolled at the event.

In Challenge and Innovation Forum, CIF 2021, in Doha, Qatar, 46 inventors from twenty different countries received their INV certificates. The competitors were from countries all around the world, such as **Switzerland, Kuwait, Italy, Japan, Turkey, Egypt, Algeria, Russia, Oman, Qatar, Bahrain, Saudi Arabia, Sweden, Lebanon, Thailand**, etc.

We are happy to know that more than one thousand people are currently official INV members of The International Federation of Inventors' Associations, and the number is rising. Every day, there are more and more INV requests from different regions, and we are witnessing that the IFIA family is growing bigger every day in the world.

After all, we want you to know that the doors of **IFIA are open to all inventors and innovators who want to become official members of the federation.**



NEW IFIA INV MEMBER

November 11, 2021- Doha, Qatar



12TH IIIC INTERNATIONAL INNOVATION AND INVENTION COMPETITION WAS HELD SUCCESSFULLY IN NOVEMBER 2021

12th IIIC International Innovation and Invention Competition Report
The 12th IIIC International Innovation and Invention Competition Was Held Successfully in November 2021.

12th IIIC International Innovation and Invention Competition Award Ceremony Undaunted by the outbreak, the situation is unprecedented. The 12th IIIC International Innovation and Invention Competition Award Ceremony was held on 18 November 2021.

Congratulation messages were sent by President Tsai Ing-wen and Vice President Lai Ching-de. The guests, including former Vice President Wu Dunyi, Deputy Minister of Economy Lin Chuan-Neng, Deputy Director-General of Department of NGO International Affairs Elvie Wu, Deputy Director-General of the Intellectual Property Office Zhang Yuying, Director of the Information Services group of the Ministry of Economy Industry Bureau Lin Biyu, as well as Taipei City (SAR) Councillor Hsu Shu-Hua, all paid tribute to the distinguished guests and were honored and encouraged.

The event kicked off with the melodious and joyful music of Taipei (SAR) Private Tsai Hsing School, showcasing





the creativity and enthusiasm of all the outstanding inventors. Wu Kou Chen, president of International Alliance of Innovation and Invention Associations, said that the IAIA and the CIIS actively lead inventors to participate in international invention events with national specifications, and thus become the pioneer of domestic participation in international invention activities, setting off a number of trends and follow-up. The IIC competition always has credibility. The jury committee consisted of 4 professors in different fields, one public representative, one intellectual property lawyer, ten experts from different countries, etc. All award winners were strictly selected by the jury committee. **2021 IIC hosted 476 projects, and over 1000 inventors came from 11 countries participated** in this event. Moreover, we have special thanks to our awards committee and our supporting partners. We look forward to seeing you at the 2022 IIC competition.

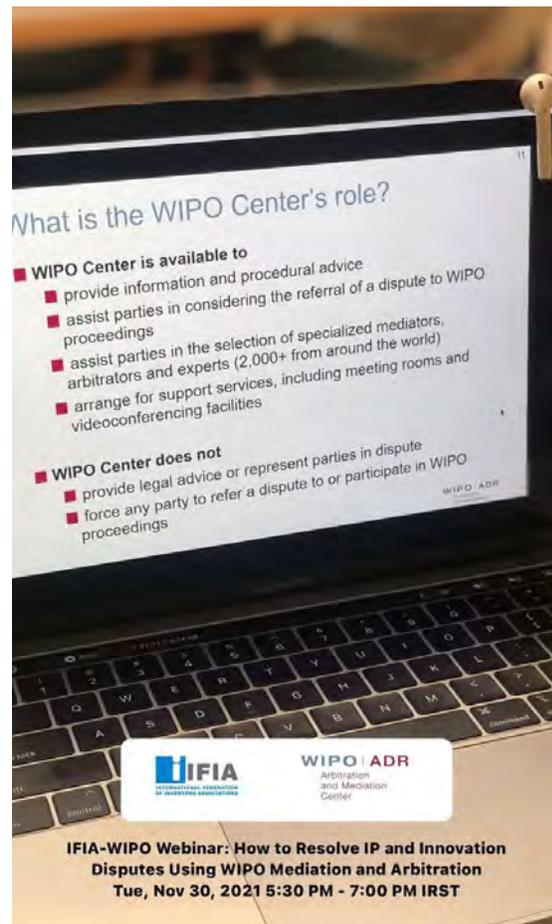


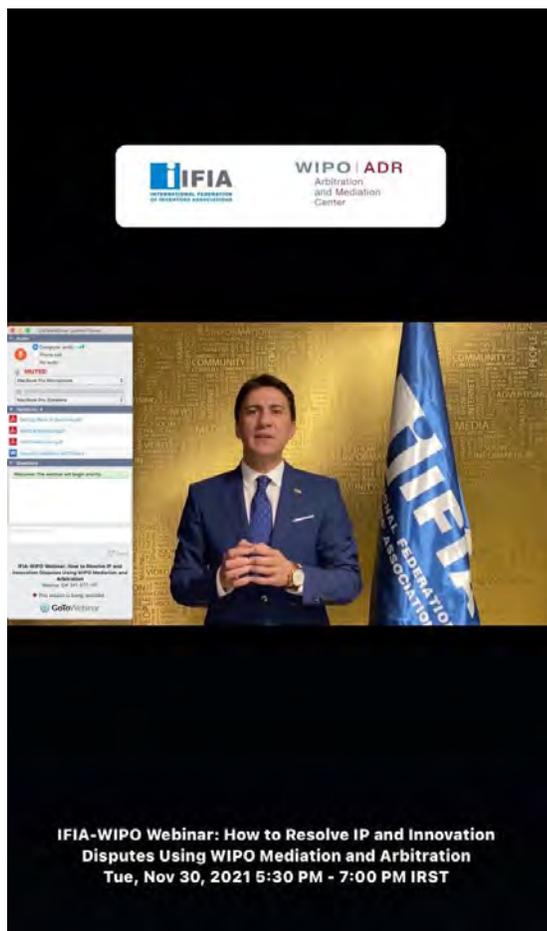
IFIA AND WIPO HELD THEIR JOINT WEBINAR ABOUT IP DISPUTES ON NOVEMBER 30TH

IFIA And WIPO IP Disputes Webinar IFIA And WIPO Held Their Joint Webinar About IP Disputes on November 30th

Both in developed and developing countries, disputes over intellectual property are unavoidable. Accordingly, in consequence of the cooperation between IFIA and WIPO, it was time to familiarize the inventors of IFIA member countries with the valuable services of WIPO Alternative Dispute Resolution. For this purpose, Mr. Bijan Nasiri Azam, IP Office Manager of IFIA, executed “IFIA-WIPO Webinar: How to Resolve IP and Innovation Disputes Using WIPO Mediation and Arbitration” on November 30th, where the officials of WIPO ADR Center described the relevant services to all IFIA INV members, and the audience asked their questions and obviated their ambiguities in this event. Intending to support independent inventors in international intellectual property disputes, IFIA has partnered with WIPO’s ADR section to help the invention and innovation society benefit from WIPO facilities in this matter.

As we know, filing international claims and





lawsuits in all areas, especially intellectual property, can be extremely expensive and time-consuming. But different options can be used by the parties to help resolve conflicts quicker and less costly, such as arbitration.

So, the WIPO Arbitration and Mediation Center offers time- and cost-efficient alternative dispute resolution (ADR) options, such as mediation, arbitration, expedited arbitration, and expert determination to enable private parties to settle their domestic or cross-border commercial disputes. So, the WIPO Center specializes in IP and technology disputes. In this case, IFIA wanted to introduce WIPO's potential to you inventors, and we hope that you can use the solutions when needed.

Moreover, IFIA plans to hold "IFIA-WIPO Webinar: How to Resolve IP and Innovation Disputes Using WIPO Mediation and Arbitration" in a more specialized way in some countries, in other languages. So, if you want IFIA to hold this event in your country, contact the IFIA offices in your region.

Lastly, IFIA thanks Mr. Marco Matias Aleman, Assistant General Director of WIPO, and Mr. Bijan Nasiri Azam, The IP Office Manager of the International Federation of Inventors Associations, for holding this webinar and helping IFIA expand and develop the invention and innovation ecosystem.



MEETING

IFIA 41ST VIRTUAL EXECUTIVE COMMITTEE MEETING

IFIA 41st Virtual Executive Committee meeting was organized on 08.December.2021

IFIA 41st Virtual Executive Committee meeting was organized on 08.December.2021, to launch the new "IFIA Innovation Standard" or "IIS," as the federation's main project in 2022. IFIA's Main Project for 2022, IIS, Is Officially Approved By The Executive Committee.

After a year of consideration and putting the process from idea to commercialization in the spotlight, a sustainable, international, and professional innovation standard was not recognized to help innovators, whether to help them in the process of entering the market for amateur innovators or those who were on the path of professional commercialization. Therefore, after many evaluations, IFIA's team, consisting of many experienced international experts in innovation and inventions, proposed a solution, IFIA Innovation Standard. And now, this new project has been officially approved by IFIA's Executive Committee.

Organizing a secure platform to boost innovation and innovative inventions is one of IFIA's most valuable roles. IFIA has always felt a gap between the investors interested in the invention ecosystem and the innovations that are looking to be commercialized. Therefore, the International Federation of Inventors' Associations has started IFIA Innovation Standard, IIS, as its main project for 2022 to fill the aforesaid gap. Therefore, the innovators can assure investors, third-party companies, manufacturers and startups that they are investing in a potentially marketable innovation, and they can acknowledge the innovators easily. Moreover, the new "IFIA Innovation Standard" system is going to help many different inventors, innovators, companies, and startups promote their creations to the global market. Plus, by having IIS, IFIA would provide innovators with a unique certificate and a profile on IFIA's website. So, whether your innovation is patentable or not, IFIA has set out this project to engage as many people as possible in the invention and innovation ecosystem. Therefore, a creative person, or the person who owns an innovative process, product, or place, can request to have this significant certificate.

The voting members :

- 1.Mrs. Elinora Inga Sigurdardottir / Iceland (Positive vote)
- 2.Mr. John J. Calvert / USA (Positive vote)
- 3.Dr. Marcelo Vivacqua / Brazil (Positive vote)
- 4.Dr. Andrei Victor Sandu / Romania (Positive vote)
- 5.Mr. Majid Elbouazzaoui / Morocco (Positive vote)
- 6.Mr.Hossein Vaezi Ashtiani / Iran (Positive vote)
- 7.Mr. Lukas Zmeskal / Czech (Positive vote)
- 8.Mr. Winfried Sturm / Germany (Positive vote)
- 9.Ms. Megaria Augstina / Indonesia (Positive vote)
- 10.Mrs. Agnieszka Mikołajska / Poland (Positive vote)
- 11.Mr. Radwan Chouaib/ Lebanon (Positive vote)
- 12.Dr. Zengpei Xuan / China (Positive vote)
- 13.Mr. Koray Sahin/ Turkey (Positive vote)
- 14.Mr. Zaran Barisic/ Croatia (Positive vote)
- 15.Dr. Aynampudi Subbarao / India (Positive vote)
- 16.Mr.Shin Kyoung-hi / South Korea (Positive vote)
- 17.Prof. Dr.Unchalee Sanguanpong / Thailand (Positive vote)
- 18.Dr.Adnan Al Naimi / Qatar (Positive vote)
- 19.Mr. Dmitry Zezylin / Russia (Positive vote)

Committee members without a vote:

- 1.Prof. N. M. S. Sirimuthu / Sri Lanka
- 2.Mrs. Traiza Jasim Ridha / Iraq
- 3.Mr. Kenneth Hawksworth / South Africa
- 4.Mr. Fernando Lopes / Portugal
- 5.Dr. Yevhen Kudriavets / Ukraine
- 6.Dr. Mahmoud Hafez / Egypt



Zahra Bayanolhagh

Master Student in Nanobiomimetics

Islamic Azad University, Tehran Medical Branch

Caring for newborns is one of the main challenges in every parent's life. If the newborn is the first child in the family, the parents' inexperience multiplied this sensitivity. Diagnosis of jaundice in infants, measuring body temperature, heart rate, blood oxygen level, and wake-up alarm are some of the most critical problems families face at the beginning of the birth of their children. Every existing solution has some advantages and disadvantages, and the main problem is the lack of an integrated system for diagnosing all the mentioned symptoms. The next issue is providing services in some methods that are not easy and burden financial and time costs for parents.

In addition to increasing speed and reducing costs, the use of image processing technology does not cause the slightest injury to the baby and the growth of the stem cells. Its application is fast and straightforward and does not require training.

In a neonatal jaundice diagnostic device, the amount of neonatal jaundice is measured using image processing by examining the yellow color of the skin and the sclera of the baby's eyes. In addition, they are using this technology to measure a baby's heart rate, body temperature, and blood oxygen level and alert parents if the baby wakes up.

A neonatal jaundice detector using image processing includes a lithium polymer battery as a power supply. This battery can be charged via the charging socket provided in the circuit, and SMD continuous light is used to provide enough light for imaging. A color LCD is embedded in the device to display information and analysis, and an ESP32-CAM camera is employed for imaging in this device.

Ali Golshani

Ph.D Student in Technology Management

Islamic Azad University Tehran
Central Branch



Device for diagnosing jaundice and vital signs of infants using image processing



Taking Care
of a Newborn



2ND INNOVACITIES HALL HELD BY ABIPIR-IFIA ON DECEMBER 2021 IN BRAZIL



INNOVACITIES HALL 2021, Report 2ND INNOVACITIES HALL Held by ABIP- IR-IFIA on December 2021 in Brazil.

By Mariangela Lückmann – Director of IFIA Latin America Office; Director of ABIPIR Education and Events.

From December 2nd to 3rd, 2021, ABIPIR held the INNOVACITIES TRINATIONAL – Innovation, Entrepreneurship and Sustainability Show for Cheerful, Creative Human and Smart Cities, at the Rafain Palace Convention Center, in the city of Foz do Iguazu, Paraná, Brazil. ABIPIR-IFIA held, for the second consecutive year, the edition of the INNOVACITIES Trinacional Exhibition at the 16th Festival das Cataratas, at the invitation of the organizer of the main tourism event in Brazil this year. We were present with our partners, sponsors, and supporters, including TOTVS; Uniamérica-Uncomplicates; De Angeli Eventos e Em-

preendimentos; BNI – Business International Networking; ADIRI – Development and Integration Agency for the Region of Itaipu (Paraguay); Open Museum (Paraguay); CODESPI – Puerto Iguazú Development Council (Argentina); Regional Innovation System of Western Paraná Iguassu Valley; ACIFI – Commercial and Business Association of Foz do Iguazu; Sol Pedras Group and Parimpact.

A great success, crowded with entrepreneurs and representatives of institutions from the three countries, Brazil-Paraguay-Argentina, the event was characterized by an international environment of challenges and uninterrupted solutions for the reality of the Trinational Region.

Once again, we would like to thank the Festival das Cataratas for their warm welcome to ABIPIR-IFIA in this fundamental event in Foz do Iguazu, the destination of the world.

The 2nd Iguassu Conecta was also held at the same time, and there were uninterrupted in-person pitches, debates, and lectures on innovation and territorial reinvention of geographic regions in Foz do Iguacu, based on the mobilization of entrepreneurs, innovative entrepreneurs, and business entities. Start-ups from eight different regions participated, through the Ministry of Tourism of Brazil, in addition to entrepreneurs from Paraguay, through ADIRI. We had the brilliant participation of innovative experts in international interactive lectures on Technological Management Solutions (TOTVS), Creative Economy (ADIRI-Open Museum and Itaipu Binacional Paraguay), Edutech (Uniamérica-Descomplica), and Professional Networking (BNI). In an innovative way, ADIRI and Museo Abierto brought, in partnership with ABIPIR, artistic intervention in the context of Creative Economy, which mixed tradition and innovation, through the work of Paraguayan artist Marcelo Chaparro, who joined rustic materials produced by indigenous peoples of the region to the use of 3D printing and painting techniques on can-

vas, in the making of three works of art live, during the event, and which will be auctioned in 2022 with its proceeds aimed at rescuing the culture and business of these communities through of exhibitions in the Trinational Region.

The objective of this event was to continue the actions of INNOVACITIES in a context of profound adversity and necessary adaptation in light of the worldwide pandemic of the new coronavirus. We marked the representation of the essential Innovation event in a year of impact for the planet. In particular, the INOVACIDADES Hall marked once again, on Brazilian soil, the partnership to boost the territorial development of the tri-national region through Innovation and Entrepreneurship with a strong base of sustainability, between ABIPIR and ADIRI, with the support of the Board of Directors of IFIA for Latin America. We would like to thank all the partners who accompany us on this local journey with a global vision without borders. Much news awaits us in 2022. We'll see you soon!"

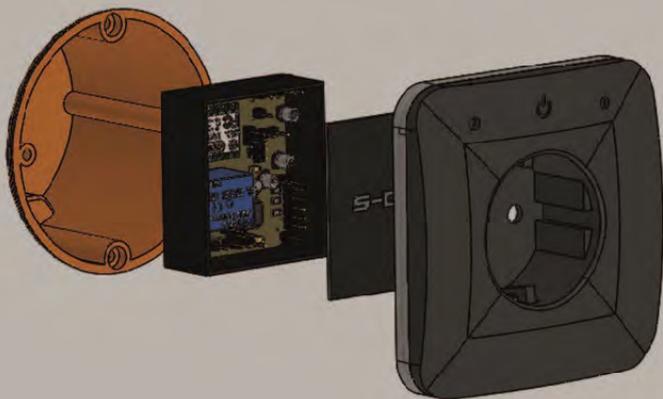


Innovators: Lovro Stipanovic, Josip Oroz

Mentor: Ivan Vlainic

Association of Technical Culture and Information Technology Teachers, Samobor

Purpose of the innovation: Smart home management system



One PRO-S device replaces 4 or 5 different appliances made by different brands that are, to a certain extent, incompatible and therefore unsafe. The revolution in the IoT world has found solutions for many flaws found in previous smart home systems. The installation in the existing installations is simple. PRO-S has three keys that can be used to control the home devices offline, regardless of the Internet connection. Background lighting makes the product aesthetically pleasing, which is an added value, and it is suitable for bars and restaurants because it is highly visible. The system includes a chip for measuring electricity use, enabling the user to monitor all systems and make adjustments. PRO S is in sync with the weather outside, so it can change in your home according to the weather. The system is compatible with virtual assistants like Amazon Alexa and HOMEPOD, allowing homeowners complete remote control and surveillance.

Andrije Hebranga 26, 10430 Samobor, Croatia

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IFIA Official Technology Transfer Brokerage Department ICCD is a global commercialization brokerage program that offers your inventions to worldwide investors with seven regional offices and provides consultancy on all kinds of issues you need while doing this.

The inventions you have created as a result of great efforts have difficulty reaching the global dimension. Thanks to ICCD regional offices and sub-regional offices, each of whom specializes in inventions, R&D, innovation, and commercialization ecosystem, your inventions are presented to relevant investors.

Thanks to the network created in more than 160 countries on five continents, the innovation hunter of each region can examine your inventions and easily match you with the relevant investor of their region.

ICCD doesn't just offer you the opportunity to meet with investors. On the way from invention to commercialization, it provides you with a one-on-one consultancy with its partners on

all the issues you may need, trains you, and makes you ready for investors. In addition, it is beside the inventors with the subjects of Mentorship, International Cooperation & Commercial Reference, Marketing Activities, Workshops & Seminars. And you don't have to be at any technology readiness level for this. ICCD regional offices make an effort to present all technology readiness level inventions to investors.

To benefit from the world's largest commercialization network, you can contact us immediately and increase the chances of your invention being commercialized on a global scale.

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Web: www.innovationhunters.org
Contact: koray@innovationhunters.org
Phone: +905326058995

IFIA AND ABIPIR PROMOTE BUSINESS FOR INVENTORS AND STARTUPS

IFIA and ABIPIR Promote Business for Inventors and Startups



IFIA – ABIPIR Latin America Office
Inventions, Innovations and Business
Helping inventors and Entrepreneurs to access

Episode 1: How to generate business in Brazil
January, 26th (Wed) - GMT-3 -12AM BRT

In this **FREE** webinar you will learn everything you must know to sell/license your invention or software. Access the Brazilian market, a Startup or traditional Company in one of the biggest, valuable, and business friendly market in the world - BRAZIL.

Speaker: PhD Marcelo Vivacqua - IFIA Latin America Director and founder and President of ABIPIR

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Following its mission to develop innovative actions which can help both, Inventors and entrepreneurs, as Startups owners, IFIA and IFIA-ABIPIR Latin America Office will start a web series with episodes covering relevant themes as tips and strategies to improve the inventions and businesses, Intellectual Property, internationalization, marketing, etc.

The first episode will cover the theme: "How to generate business in Brazilian market" and will be conducted by Ph.D. Marcelo Vivacqua, IFIA's Latin America Director and member of the Executive Committee and founder and President of Brazil International Innovative Inventors, Scientists and Entrepreneurs – ABIPIR.

IFIA, under the brilliant leadership of President Alireza Rastegar and ABIPIR together will keep working hard to continue helping Inventors and Entrepreneurs to develop inventive and innovative inventions and innovations to make the people's lives healthier, safer, easier and comfortable."

...e presents:

... webseries 2022
...chieve SUCCESS

...n Brazilian Market

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...e world:



Qatar University Young Scientists Center (QUYSC) invites all inventors and researchers to submit papers addressing **the impact of the global COVID-19 pandemic**

Special Issue Information

Rebuilding Education: STEM Education Practices and Research during the Post-COVID-19

Science, technology, engineering, and mathematics (STEM) education, a form of interdisciplinary education, successfully implements competency-based teaching in educating the young generation. It enhances employability and the ability to solve complex engineering problems. In fact, STEM education is a crucial education model for boosting human capacity building and RDI talent.

The COVID-19 pandemic has created considerable rifts in the learning attainment of students worldwide due to a lack of access to a regular learning system. The learning gaps were hugely prevalent in the STEM learning areas, whereby students were deprived of hands-on and collaborative learning experiences in both informal and formal settings. Hence, this Special Issue aims to create a collection of papers on specific topics related to STEM learning and research practices in the post-COVID-19 rebuilding phase. The intention is to build a community of authors and researchers to discuss the latest research and develop innovative teaching ideas, solutions, and research directions for global educators in STEM education. The Special Issue invites the papers addressing how the impact of the global COVID-19 pandemic has affected STEM education, and what measures (teaching tools and research practices) are being applied to combat the learning gaps in STEM education in the post-pandemic era. We invite researchers engaged in STEM educational practices to share and exchange research experiences, including methods, pedagogical approaches, and environments, which they are practicing in the post-pandemic era. **Topics of interest for this Special Issue include, but are not limited, to the following:**

- **STEM curriculum development, STEM teaching models, STEM competencies, and learning outcomes in the post-pandemic era;**
- **The impact of COVID-19 on the revolution of online-based pedagogical environments such as digital resources, eBooks, online conferencing platforms, online collaboration tools, etc., on informal and formal STEM settings;**
- **The new directions of pedagogical approaches, tools, strategies, evaluation, and assessment methods for pandemic-affected STEM education;**
- **Exploring the critical factors to fill the gaps in students' learning performance affected by the pandemic;**
- **Significance of educational games and other ICT learning tools in the post-pandemic environment.**

Special Issue Editors

Prof. Dr. Noora J. Al-Thani

Guest Editor

Qatar University Young Scientists Center (YSC), Qatar University, Doha 2713, Qatar

Interests: STEM education; K-12 science education; instructional science; design thinking; curriculum development; implementation of innovative technologies in education; creativity and innovation in K-12

Dr. Zubair Ahmad

Guest Editor

1. Qatar University Young Scientists Center (YSC), Qatar University, Doha 2713, Qatar

2. Center for Advanced Materials (CAM), Qatar University, Doha 2713, Qatar

Interests: higher education; assessment theories and methodologies; pedagogy; curriculum design and development; interdisciplinary, multidisciplinary, and transdisciplinary education; educational research development

Manuscript Submission Information

Manuscripts should be submitted online at www.mdpi.com by registering and logging in to this website. Manuscripts can be submitted until the deadline. All papers will be peer-reviewed. Accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the special issue website. Research articles, review articles as well as short communications are invited. For planned papers, a title and short abstract (about 100 words) can be sent to the Editorial Office for announcement on this website.

Submitted manuscripts should not have been published previously nor be under consideration for publication elsewhere (except conference proceedings papers). All manuscripts are thoroughly refereed through a single-blind peer-review process. A guide for authors and other relevant information for submission of manuscripts is available on the Instructions for Authors page. Sustainability is an international peer-reviewed open access semimonthly journal published by MDPI.

Please visit the Instructions for Authors page before submitting a manuscript. The Article Processing Charge (APC) for publication in this open-access journal is 2000 CHF (Swiss Francs). Submitted papers should be well formatted and use good English. Authors may use MDPI's English editing service prior to publication or during author revisions.

Zahra MohammadNejad And Her Spouse Built Intelligent Agricultural Facility With An Innovative Approach

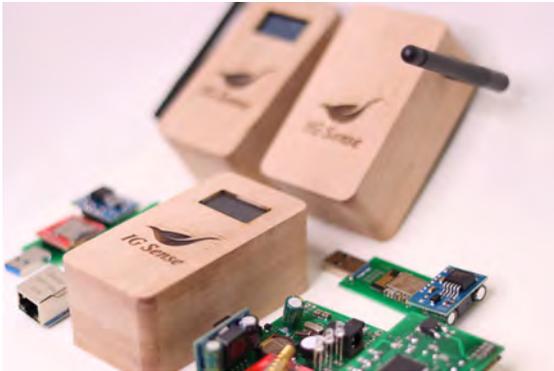
Zahra MohammadNejad, a member of the IGSense Team, holds a master's degree in the IT field has been working and researching high-tech devices for the last ten years. Mahdi Ahmadian, a member of the IGSense Team, graduated in the ICT field has been working and researching as a system analyzer and electronic engineer for the last ten years. The invention discloses a kind of intelligent agriculture greenhouse, green walls, indoor green spaces, gardens, orchards, industrial greenhouses, hydroponic greenhouses control system, including can be with the temperature sensor of environmental information in sensing chamber, humidity sensor, soil moisture sensor, the temperature sensor, humidity sensor, the data message detected is sent to message processing module by soil moisture sensor, obtained data message is converted into text information and sent to subscriber's central station by the described information processing module obtained data message is converted into text information and sends to display and show over the display by described information processing module described information processing module passes on instruction to control module according to the obtained data message, the control module receives instruction and controls temperature-adjusting device according to command information, humidity control apparatus, air-cleaning the unit, watering device works, the present invention is reasonable in design, it is simple to operate, being capable of Intelligentized



regulating and controlling temperature indoor environment, subscriber's central station remotely can receive and transmit order information to multiple greenhouses, improve the efficiency of management. The above plan is only for monitoring and reporting the conditions of the greenhouse, green walls, indoor green spaces, gardens, orchards, industrial greenhouses, hydroponic greenhouses. In contrast, in addition to monitoring, controlling, and even reporting, our plan can have an irrigation program for each number of plants, etc., and has no restrictions on installing sensors and other equipment.

The main problem in existing systems is the lack of modularity, making it necessary to purchase a complete approach to upgrade the system. Designing the whole system on one board increases the possibility of failure, circuit complexity, and the impossibility of expansion. Existing systems are limited in increasing the number of solenoid valves, which prevents expanding the irrigation space. It is not possible to offer different programs depending on the type of plant. The number and type of sensors are limited. Existing systems operate only on the GSM platform. There is no alternative if GSM is disconnected and current systems do not allow the storage of incoming reports and commands.

For this purpose, a comprehensive and intelligent system has been designed that solves all the problems of the current systems. Among the capabilities of this system, the following can be mentioned: Separating the mainboards, controllers, and sensors from each other and modulating them, which solves the problem of limiting the definition of device elements (solenoid valve, pump, and sensor). The possibility of increasing the number of solenoid valves indefinitely will expand the geographical space of the coverage area. The possibility of increasing the number of pumps indefinitely will make it possible to define different intelligent programs based on the information received from the sensors and adjust the solenoid valves. Ability to increase the number of sensors per pump and solenoid valve to provide different applications based on other plants. Use GSM, GPRS, and Internet platforms as a backup. Establish communication between the mentioned boards wirelessly. The possibility of direct connection of the device to the Internet to receive the program and send reports and send orders and receive messages through a server, in which case the information sent and received can be stored.





FACULTY RESEARCHER AND INNOVATOR Dr. Yarlagadda Padma Sai

Dr.Y. Padma Sai obtained her undergraduate Degree from Nagarjuna University, Guntur, post graduate in Systems and Signal Processing and Ph.D. in Bio-medical Signal processing from Osmania University, Hyderabad. She started her career as Engineer at M/S. Suchitra Electronics Pvt. Ltd later moved to teaching. From a Lecturer in the Department of ECE in Deccan College of Engineering and Technology, Hyderabad, she gradually moved to become Professor & Head of Department of ECE Department & Dean, Student Progression in VNRVJIET, Hyderabad, India Professional recognition followed soon, she is a Senior member of IEEE & Vice-Chairman for WIE AG, IEEE Hyderabad, Fellow of IETE & Member women Empowerment in engineering committee IETE IEI, Execute Member ISTE & Secretary cum treasurer ISTE and also Life member of ISOI and ASCI.

Very active researcher, she has presented and published 90 research papers in National and International Conferences/Journals in Bio-Medical, Signal and Image Processing, and AI. Her research is cited 259 times and 2022 paper was 'Cognitive assistant DeepNet model for detection of cardiac arrhythmia'. Google scholar reference: <https://scholar.google.com/citations?user=vITQeY8AAAAJ&hl=en>

Published three patents by Indian Patent office and was one of the inventors of the patent granted by Indian Patent office titled 'A Method and System for Analyzing Risk Associated with Respiratory Sounds' - <https://patents.google.com/patent/WO2019116381A1/en>

She is co-founder of startup "Solbots technologies Pvt Ltd" (<https://www.solbots.in/>) and won many awards in IFIA sponsored international innovation fairs. She has received Silver Medal and Bronze Medal for the innovation Cough and Wheeze Analyzer from Indian Innovators Association and China Association of Inventions respectively. She was awarded Gold Medal by Korea International Women Invention Exposition (KIWIE-2019) as women entrepreneur.



Sensifai BVBA from Belgium Is Now Among IFIA's Full Members

Sensifai is an award-winning AI startup in Belgium, developing systems that enable computers to understand images, audio, text, and video content. Their innovations focus on the edge of processing deep-learning algorithms, recognition of complex actions and events, and deep-learning algorithms to solve complex inverse problems. Sensifai has successfully launched spin-off technologies in different verticals such as automated shopping, safety, security, assistive technologies, and sensory information processing.

They were a proud graduate of SAP and Techstars accelerator in 2017. They have received several million dollars of investments and credits from different programs such as VLAIO, IUIA, and the European Commission. Moreover, they have served hundreds of clients worldwide, such as HUAWEI, Amazon, ARTUS, and dWERK, and forged priceless partnerships with gigantic tech corporations such as Amazon, Intel, and Huawei.

Sensifai's goal as the representative of IFIA in Belgium is to engage young generations in state-of-the-art inventions and further promote the entrepreneurial spirit. As an AI company with roots in the top universities, such as KU Leuven in collaboration with the Massachusetts Institute of Technology (MIT), and ETHZ, Sensifai aims at creating an ecosystem where inventors, different stakeholders, and end-users exchange their knowledge to innovate toward solving the real-world problems that save the planet, enhance our daily lifestyle, and support vulnerable and minorities. As the CEO and co-founder of Sensifai BVBA, Dr. Mohamad Hasan Bahari has managed to run the company with its several spin-offs get accelerated and supported by Techstars, SAP, VLAIO, and the European Innovation Council (EIC). Plus, this company has raised over \$2M Cash + \$1M Credit fund together with its spin-offs. Dr. Mohamad Hasan Bahari also serves as an expert in the European Commission, Eureka Network (Europe), as a mentor in the New chip accelerator (USA), and has been awarded as the top 10 Belgian innovators in 2017 by MIT Technology Review.

Lastly, IFIA is happy to know that a new innovative organization from Belgium is now a full member. And we hope that this company helps the inventors and innovators from Belgium and all around the world.

IFIA AND ABIPIR CONTRIBUTE TO THE TRAINING OF NEW INVENTORS AND SCIENTISTS AND MUCH MORE IN 2022



The **IFIA-ABIPIR Latin American office**, which has a Director **Mrs. Mariangela Lukmann** started in 2022 exactly as it ended 2021: at an accelerated pace promoting impact actions for the global ecosystem of inventions and innovations, as used to say the IFIA's President, **Mr. Alireza Rastegar**.

Below is a summarized description of these relevant actions developed by IFIA-ABIPIR in 2022. The year promises to be one of great achievements that will generate great value for Inventors, Scientists, and Entrepreneurs who are part of the Ecosystem of these entities. With the mission of not only working with Inventors, Scientists, and Entrepreneurs in the activity but also contributing to the formation of the future generation that replaces them, the Director of IFIA in Latin America facilitated the presentation of relevant work presented by Brazilian students. , the only one to represent Brazil within the Global Innovation Field Trip, led brilliantly by its creators, **Juli Shively** and **Jake Mendelsohn**.

The paintings aimed at the students of Escola EEEM Sister Maria Horta School **Filipe Mateus Siqueira, Maria Clara Cattabriga Nascimento, Maria Tainá da Silva Queiroz, Caio Batistuta Novaes Luna, Cristyan Alves de Oliveira Almeida** and the invited students **Emily Felix Natali, Maria Clara**

Rufino Alves, and Gabriel Couto Queiroz Corrêa, guided by Professor **Gustavo Paes Barreto**, had the purpose of registering in the form of art and science as legends of the State of the Spirit. In addition to the historical rescue of the students, they also study the physical and chemical processes involved in the handling of paints and the ways in which the paintings undergo an action of the environment after completion.

Another relevant action was the launch of the newsletter launched by the Latin American Office of IFIA/ABIPIR, India branch coordinated by entrepreneur Anand Kanan, CEO of Startup Avas Digitech. The publication will address the main news of interest to Indian Inventors and Startups.

And to close with a flourish the actions at the beginning of the year will take place on January 26th; 12 PM Brazil time, the launch of **IFIA-ABIPIR Inventions, Innovations, and Business Webinars 2022**. In its first episode, the Director of IFIA in Latin America and President of ABIPIR will talk about how to do a business in the Brazilian Business Ecosystem in the safest, easiest, and faster ways. The project includes the realization of one episode a month always talking about the themes of interest of Inventors, Scientists, and Entrepreneurs.



CALL FOR THE IFIA PRESIDENCY CANDIDACY 2022-2026 AND THE IFIA EXCO CANDIDACY 2022-2024



The IFIA Secretariat invites IFIA members to nominate for the IFIA Presidency Candidacy 2022-2026 and the IFIA ExCo 2022-2024

According to the IFIA statute, IFIA members can send their applications for IFIA Presidency Candidate covering the period 2022-2026 or the IFIA Executive Committee member candidates covering the period 2022-2024 to the IFIA Secretariat in an official letter signed by the head of the Association.

The deadline for submission of candidacy is April 30, 2022, and applications will be considered at the next meeting of the IFIA Executive Committee.

The IFIA President:

The President shall be elected by the General Assembly for a period of four years. He/She can be reelected.

The IFIA president shall meet the following criteria (Approved by the IFIA Exco and the IFIA General Assembly in 2014)

- Willingness and ability to afford the time and resources required for IFIA work
- Possess the knowledge and capacity to contribute to IFIA's mission and strategy
- Possess enough experience and knowledge about IFIA activities
- Participate strongly in IFIA activities and meetings
- His/Her association must be a member of IFIA
- who can well represent an international NGO as like the IFIA
- International prestige
- International acceptance
- IFIA Exco work background
- Inventor activity (it is indicated by espacenet database)
- Innovation activity (valuable results on the world market)
- Good English writing and speaking
- NGO leadership practice
- Support of the IFIA organization in own country
- Official Guarantee letter signature by Government site or an official letter signature by a reputable and well-known sponsor for IFIA office financial support, minimum 500,000 USD per year (Two million USD for 4 years)



IFIA Executive Committee Members

IFIA Executive Committee members that consist of up to one-third of IFIA full members are elected by General Assembly for two years. They ensure that the decisions of the General Assembly are carried out within the means of IFIA, are responsible for the operation of any further committees and working parties of IFIA, and examine applications for membership to the various membership grades.

The Executive Committee members meet twice a year and work voluntarily.

Also, the Executive Committee shall meet in extraordinary session upon convocation of the President, either on his own initiative or at the request of over half of the Committee's members.

According to the statutory laws, the elected members shall work voluntarily.

IFIA Executive Committee on IFIA's statutes:

1. In addition to the President, the Executive Committee shall consist of up to one-third of the full members of IFIA. The members of the Executive Committee will be elected by the General Assembly for two years (until the next ordinary session of the General Assembly). These shall represent equitably the different regions of the world, and not be more than one from each country.
2. The Executive Committee may, on the initiative of the President, reach decisions by correspondence.
3. The Executive Committee shall make its decisions by a simple majority of the votes cast. A quorum of one-third is, however, necessary.
4. The Executive Committee will ensure that the decisions of the General Assembly are carried out within the means of IFIA; will be responsible for the operation of any further committees and working bodies of IFIA; will examine applications for membership to the various membership grades.
5. The General Assembly may delegate such further powers to the Executive Committee as it thinks fit, with the exception that the right to make decisions in items concerned in (a), (b), (c), and (d)— in so far as it relates to the expulsion of members) in Article 8 subparagraph 1 may not be delegated. The Executive Committee shall take in the exercise of powers so delegated thereto conform to any regulations that may from time to time be imposed upon it by the General Assembly. The Executive Committee shall propose to the General Assembly ratification of the appointment of the Chairman of all such Committees.
6. The Executive Committee members work on a volunteer basis with no remuneration.

Moreover, IFIA Executive Committee nominates shall meet the following criteria:

- Willingness and ability to afford the time and resources required for IFIA work
- Possess the knowledge and capacity to contribute to IFIA's mission and strategy
- Possess enough experience and knowledge about IFIA activities
- Strongly participate in IFIA activities and meetings
- Their association must be a member of IFIA

Criteria for approving candidates for the IFIA GA voting:

Payment of the annual membership fee of the association from the beginning of membership in the IFIA without interruption.

Submitting the annual activity report of the association from the beginning of membership in the IFIA without interruption.

Attend IFIA meetings, events, and programs since joining the IFIA.



IFIA-ABIPIR WEBSERIES TO HELP INVENTORS AND STARTUPS IN BRAZIL

IFIA-ABIPIR Web series Help Inventors and Startups to Succeed in Brazil Business Ecosystem

IFIA-ABIPIR WEB SERIES Help Inventors and Startups to Succeed in Brazil Business Ecosystem

In this first episode of the IFIA-ABIPIR webinars 2022, the Director of IFIA in Latin America has covered the main points about the possibilities of creating a successful, safe and profitable business in Brazil.

Brazil is a huge potential market for Inventors who wants to sell, license, or create a connection with some Brazilian Company to industrialize, distribute or sell the invention for Startups and conventional Companies.

Watch the video and share your comments and doubts, and we will clarify them for you. IFIA and ABIPIR will continue doing these webinars taking relevant and valuable topics which can help Inventors and Entrepreneurs to succeed with their inventions and enterprises.

The next episode will present one of the most relevant and high potential ecosystems of business and innovation in Brazil which is the Foz do Iguaçu City and neighboring cities in western paran a and also includes bordering countries such as Argentina and Paraguay.

IFIA and ABIPIR will continue to fulfill their role of supporting inventors and entrepreneurs aiming at their success through the transmission of valuable content, organizing events, and connecting them to potential investors and commercial partners.

This has been the orientation passed on by the President, Alireza Rastegar, to all the members of the Executive Committee so that, in their countries and regions of origin, as is the case of the Latin American Office of IFIA-ABIPIR, they do not measure efforts to fulfill the mission of making a difference in the lives of inventors and entrepreneurs.



IRAQ JOINS THE PATENT COOPERATION TREATY, PCT AS THE 155TH MEMBER OF THE PCT UNION

We want to congratulate the Government and inventor of Iraq on joining the Patent Cooperation Treaty, PCT. After many events, webinars, and seminars regarding the significance of membership in the Patent Cooperation Treaty, the Iraqi Government felt the need to become a PCT member to achieve a better result for their inventors and innovators. After many contemplations and deliberations, Iraq finally joined the Patent Cooperation Treaty, PCT, on January 31st.

In order to demonstrate the importance of the Patent Cooperation Treaty to the invention and innovation ecosystem of Iraq, the International Federation of Inventors' Associations has held many events and workshops for the community. For instance, Mr. Bijan Nasiri Azam, IFIA's Representative in WIPO and the IP Office Manager of IFIA, had the chance to explain the intellectual property and PCT by holding a workshop regarding IP in Baghdad, Iraq. Moreover, he had the opportunity to indicate intellectual property and the Patent Cooperation Treaty to the Deputy Minister of Higher Education and Scientific Research of Iraq in the same event.

After all, on January 31st, 2022, the Government of Iraq officially joined the Patent Cooperation Treaty, PCT, making Iraq the 155th member of the PCT Union. The PCT will enter into force for Iraq on April 30th, 2022.

By this treaty, IFIA hopes it encourages and assists the Iraqi researchers, inventors, and innovators to participate in international scientific conferences within their competence and present their research abstracts and discussions within the patrols of the society. Moreover, we hope that the Iraqi Government would develop more cooperations with international organizations specialized in this aspect and to support the innovators to elaborate their ideas to inventions and provide them with the requirements to resolve the obstacles of their progress.

Lastly, IFIA thanks Mr. Bijan Nasiri Azam, IFIA's Representative in WIPO and IP Office Manager, and Mrs. Traiza Jasim Ridha, the President of the Iraqi Society of Inventors and Innovators, IIS, for all their hard work and efforts. We hope for a bright future for the Iraqi invention and innovation society.

IFIA CELEBRATES WORLD CREATIVITY AND INNOVATION WEEK 2022

IFIA invites all of the members to celebrate the World Creativity and Innovation Day on 21 April 2022 to appreciate the role that intellectual property rights play in stimulating innovation and creativity

What is creativity?

You may think you have a pretty darn good understanding of what creativity is- you see it, you hear about it, and maybe you even practice it. But what exactly makes something creative? And how can one get **better at creativity**?

Creativity is a mindset, a skill set, and a toolset. It's a framework for approaching problems. It involves brainstorming a lot of ideas, seeking novelty, deferring judgment, and building off the ideas of others.

When it comes down to it, creativity is about going beyond just your first right answer and discovering the second, third, or 124th.

Why is it important?

Practicing creativity will bring creative confidence, and with creative confidence will come your ability to look at problems as opportunities. You will find new solutions to personal opportunities and change your life. You will find creative solutions to community opportunities and change your world. You will discover new connections to improve the world for all of us.

What is WCIW?

World Creativity and Innovation Week is a worldwide community dedicated to celebrating all forms of creativity. Creativity is what makes the world go 'round. And don't just take our word for it – look around you: Everything around you is a product of creative minds thinking differently, challenging the norm, taking risks, and learning from trial and error. Everything you do can be a creative act.

What is WCID?

Observed six days after Leonardo da Vinci's birthday and one day **before International Mother Earth Day**, World Creativity & Innovation Day (#WCID) is well-positioned to encourage creative multidisciplinary thinking to help us achieve the **sustainable future we want**.



What is World Creativity & Innovation Week?

April 15-21 is a weeklong celebration that ignites creativity, encourages and empowering everyday creativity, and celebrates the role of intellectual property rights. WCIW exists to inspire and enable everyone to be creative.



1 CREATE
Create a celebration. It can be a webinar, project, video/article... anything

2 SUBMIT
Submit your celebration to www.wciw.org to be featured by us

How to Celebrate World Creativity & Innovation Week

Do something that showcases your creative & innovative thinking.

Celebrate with anyone: family, friends, classmates, co-workers, or even solo.

Your celebration can be almost anything. Creativity has no limits.

Example celebrations:

- Hold a workshop
- Interview a mentor
- Have an artist create something
- Cook a dish you've never tried
- Invite a group of people to a meal
- Write an article or blog post
- Integrate creativity into your work
- Film a video of your celebration
- Create your own celebration



World Creativity & Innovation Day

April 21

World Creativity & Innovation Week



World Creativity & Innovation Day
April 21

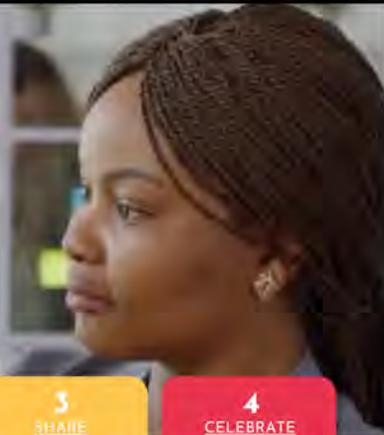


World Creativity & Innovation Week?

World Creativity & Innovation Week is an international community dedicated to celebrating creativity in homes, schools, and communities. It's a time for everyone to live more creative lives.

What is World Creativity & Innovation Day?

April 21 is a United Nations International Day of Observance celebrating the use of creativity & innovation to advance the 17 Sustainable Development Goals. WCID exists to empower people to use new ideas, make new decisions, and make the world a better place.



3 SHARE
Share your celebration on your website and social media

4 CELEBRATE
Celebrate your creativity & innovation with the world

1 CREATE
Create a celebration. It can be a webinar, project, video/article... anything

2 SUBMIT
Submit your celebration to www.wciw.org to be featured by us

3 SHARE
Share your celebration on your website and social media

4 CELEBRATE
Celebrate your creativity & innovation with the world

World Creativity & Innovation Week

Examples:
• Host an innovation challenge in your work center on innovation in their industry
• Hold a premier for their latest work
• Share projects you've never made before and share with friends
• Invite a group of friends together to play a new game
• Focus on creativity
• Celebrate creativity & innovation in your classroom
• Share your creativity thinking process
• Email or contact us for more celebration ideas!

How to Celebrate World Creativity & Innovation Day?

Do something that showcases your creative & innovative thinking in advancing the 17 SDGs.

Example celebrations:

- Host an innovation challenge in solving one of the SDGs
- Play a game that involves picking up trash in your local park
- Hold a forum on ways to improve education in your community
- Write an article on advancements in gender equality
- Hold a webinar for your community on ways to decrease food insecurity
- Create artwork displaying one of the SDGs
- Vlog a day of practicing good health and well-being
- Create a project for ocean conservation
- Make a useful craft out of recycled materials
- Create your own or contact us for more celebration ideas!



Use #IAMCreative on social media, take part in our creative community, and plan a celebration April 15-21!





IFIA INNOVATION STANDARD, IFIA'S MAIN PROJECT FOR 2022

One of the things that many people, companies, startups, and business incubators interested in the invention and innovation ecosystem around the world would like to know is the conditions of a standard innovation and how these ideas are distinguished and differentiated from other ones. Accordingly, the International Federation of Inventors' Associations, IFIA, started its main 2022 project named IFIA Innovation Standard, IIS, to fill the abovementioned gap.

This standard is based on several principles such as being marketable, officially patented, eco-friendly, having an economic impact, etc. These principles are explained in more detail below. So, having IIS helps ensure interested investors that they're facing an avant-garde community of innovators worldwide whose ideas have specific traits.

What is IFIA Innovation Standard "IIS"?

Since one of IFIA's most valuable roles is arranging a safe platform to promote innovation and innovative inventions, IFIA felt a gap between the investors who want to find extraordinary innovations to work on and the innovations with remarkable potential. Therefore, the International Federation of Inventors' Associations found a satisfying answer for

this. IFIA has started its new main project for 2022 to assure investors, third-party companies, manufactures, and startups that they can invest on the potential marketable innovations. Moreover, the innovators will have credit more valuable than a patent for their creation. Thus, the people interested in the network of invention, innovation, and venture capital will acknowledge the innovators easily. Now, the federation sets out the new “IFIA Innovation Standard” system, which many different inventors, innovators, companies, and startups can use to help them promote their creations to the global market.

IIS Membership Benefits:

In other words, by holding this certificate, the innovator, company, or institute would be able to use the following services to promote their idea:

- The applicant would receive a unique certificate and distinctive profile on IFIA’s website.
- The approved applicants can have a photo in IFIA’s database, and it will be available through a unique website link. The mentioned photo contains the applicant’s contacts, their portrait, and the application’s prototype.
- Being distinguished from other innovations by having IFIA Innovation Standard
- Easier commercialization; You can enter the market with a more manageable condition. Also, if the application is already in the market, it can have a higher share of the market.
- They can have public recognition, and a better chance to develop their ideas on a worldwide scale.
- The investors would know that all the innovations in this community can be profitable.

IIS Classes:

All of the applications will be evaluated by the jury board according to the mentioned criteria.

- Grade C: If the applicant fulfilled 25 to 40 points, they would receive an IIS grade C.
- Grade B: If the applicant fulfilled 40 to 65 points, they would receive an IIS grade B.
- Grade A: If the applicant fulfilled 65 to 102 points, they would receive an IIS grade A.



IIS Categories:

All of the applications divide into one of the following categories. Each applicant may have different components, but the difference doesn't change the criteria for them. In other words, the jury evaluates all of the applications from all of the categories by the same measures.

- Person: If someone has done significant activities in invention and innovation ecosystem, they can submit their application and experiences to obtain the IIS for a person.
 - Product: In order to get the IIS for a product, one should know that the submitting product must have many of the mentioned criteria, such as being tangible, having a prototype, being already on the market, etc.
 - Process: For this category, the applicant should know that the innovation of the process must be visible. In other words, the process must have a distinctive, innovative essence to get the IFIA Innovation Standard for a procedure. For instance, an innovative product line, or innovative services for customers can submit their applications.
 - Place: If a structure had innovative characteristics such as innovative materials, features, it could be possible for them to achieve IIS for a building. For instance, take the case of the construction of a manufacturer, education centers, complexes. If innovation is used in this structure, they can submit and get the IFIA Innovation Standard for a place.
- To put it simply, this means that it doesn't matter if the applicants are either people, products, processes, or places. So, in order to expand the invention and innovation culture, IFIA decided to add people, processes, and places to products for this important project.

IIS Approval Criteria:

Each following item has the range of one to six points (Except the first item; it has 4 points), and the jury board will evaluate the applications, and they will decide the final score of each application. Moreover, this list is not in a particular order and can be expected to change over time.

- 1.Does the innovation have a, international patent, PCT, EPO, USPTO?
- 2.Does it have a scientific or industrial certification from a related university or an influential industrial center in its region or on international scale?
- 3.Is the applicant an official IFIA member, INV?
- 4.Does the applicant have a recommendation letter from national governments, private sectors, or manufactures of invention and innovation?
- 5.Is the innovation green or eco-friendly, preserve natural resources, or is it using recycled resources? To what extent does the innovation cause pollution?
- 6.Does the innovation have an economic impact, potential for financial progress or cost effectiveness?
- 7.Is the innovation more useful than the existing ideas or products? What is its innovative competitive advantage?
- 8.Is there a public demand for the innovation? The popularity of the innovation will be estimated by the jury. Is the innovation seasonal or can it be used in limited geographical territories?
- 9.At what stage of development is the innovation? Is it a prototype? Ready for market? Commercialized? Or already in the market?
- 10.Does it have an outlined business plan, business model, or outcome with statistics? Also, has this innovation resulted in entrepreneurship, or it will cause in creating job for people?
- 11.Has the submitting application participated in IFIA's recent festivals and exhibitions in the

last two years? What international awards has the innovation received?

12. Does the innovation involve high technology? The jury members are required to evaluate the extent of technologies applied in the innovation.

13. Does the applicant have a recommendation letter from IFIA member offices, IFIA managers, IFIA Transfer Technology offices?

14. Does the idea have the potential to become an innovation on a worldwide scale? Has the applicant estimated the worldwide markets for their project?

15. Is the innovation ready to be commercialized, or is there a company already established for it?

16. Does the innovation project have a vision for sustainable development, safety, saving lives, saving energy?

17. What scale is target market? Local, country, continent, or worldwide?

Terms and conditions:

- After the evaluations, IFIA issues the standard for the innovation.
- The validity period of this standard is 24 months.
- The applicant must send a YouTube Video link to explain the innovation. Plus, the applicant should attach their curriculum vitae to the submitted documents.
- An innovation can apply for the standard certificate only once. If the jury did not accept the submission for whatever reason, the innovator must accept it.
- The evaluation takes two to four weeks, and IFIA will inform the applicant through email.
- Receiving this standard does not give a

green light for production for the invention. In order to produce the invention, it is necessary to operate under the laws of the country of production.

How can you obtain IFIA Innovation Standard?

To get this exceptional certificate, you need to fill out the IIS membership request form and send the form alongside all of the required documents mentioned in the criteria section. Plus, the IIS Jury Board will evaluate all of the applications.

The applicant should submit their document to standard@ifia.com.

IFIA Innovation Standard ROADMAP

In the shown roadmap, you can see that at the first step, you should submit your IIS statement letter to the mentioned email. Afterward, you must send in your IIS Criteria Checklist with the link alongside your video and documents. Then, you will be notified of the time and date of the online evaluation through Zoom. After the arbitration by the jury, you will be informed of the results of your request, and you will know whether you have been approved or not. Then, you will be able to pay the membership fee, and thereafter, you will receive the IIS certificate, your IIS webpage on IFIA, IIS Magazine, and lastly, the competitions designed for the elite IIS members.





**World
& Inn**
April 21

IFIA CELEBRATES WORLD CREATIV

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IFIA invites all of the members to
Innovation Day on 21 April 2022 to
property rights play in stimula

**World Creativity
and Innovation Day**

CREATIVITY AND INNOVATION WEEK 2022

***creativity
and innovation day***

**celebrate the World Creativity and
Innovation Day and
appreciate the role that intellectual
property plays in
stimulating innovation and creativity**



IIS MANAGER NOTE:

Everything starts with an idea. The project of the IFIA Innovation Standard is a universal goal, an international mission, and a unique vision.

I am happy to see the motivation and the alignment of Innovators on this international path with great enthusiasm. Plus, the ecosystem of IFIA is expanding on a worldwide scale using the platform of the IFIA Innovation Standard.

As the global slogan of IIS, generating wealth through innovative knowledge, we are now prepared to enter IFIA Innovation Standard into the world of NFT and provide the ability to sell them on the market. In other words, we are planning to enter and develop IIS in the digital world and metaverse. So, given the number of demands we have seen from all around the world, we invite everyone to spread the culture of innovation around the world and participate in this significant ecosystem.



Lighting Using Current Transformer

This innovation is a kind of lighting that is installed on mid-voltage power lines to supply lighting for public routes and roads. Moreover, the innovation is small in dimensions, has low weight, and is in the form of a clamp.

The reason for creating this kind of lighting was that most inter-city roads utilize the high voltage power system with 20 kV at the roadsides to supply the needed power in these areas, and most of them don't have enough lighting. And because of the high cost of construction, repair, and maintenance of the low-voltage power network, these lights can be installed directly on the high-voltage power cables and provide the needed lighting for the roads.

Establishing this kind of viewpoint assisted the elimination of many attached parts to lower the cost and decrease the global warming caused by manufacturing these parts. Moreover, using this innovation can reduce the initial cost of providing lights for roads and lower electrical losses, meaning that many roads that are dangerous to drive at night can be safe now. Lastly, in this process, this innovation has had the chance to obtain a national patent for this design in Iran and become an official member of IFIA, INV. Plus, in 2014, at IFIA's invention event in Iran, a silver medal was achieved in electrical engineering. And in 2021, at the invention fair of Turkey, this innovation was granted a WIPO medal.

Why is this innovation eligible to receive the IIS certification?

This innovation can use the global recognition of the IFIA Innovation Standard Certificate to present many of the good aspects of this creation to the world and help them reduce energy loss on a worldwide scale. Some of the advantages of this innovation:

1. All costs relating to low voltage network construction for providing light, such as lowering transformers, lighting poles and bases, low voltage cables, and network installations, are reduced at least 75 percent.

2. Moreover, by using this innovation, you can reduce energy losses such as cable ohm and transformer loss.

3. Plus, you can utilize this creation in places where deploying low voltage power is impossible, such as mountains or villages.

4. This innovation can be easily installed without interrupting the power network, and by removing the low voltage network, we can maintain the beauty of our cities.

5. A heat sink is installed to prevent heat damage to the wire and the lamp because the lamp's temperature is about 30 to 40 Celsius.

6. Last but not least, one of the astonishing aspects of this creation is that the brightness, angle, direction, and focal length are adjustable.



OIL AND GAS INSTITUTE – NATIONAL RESEARCH INSTITUTE represented by The Director Jacek Jaworski, PhD Eng.



INVENTION TITLE: A biocidal - stabilising composition for biofuels

AUTHORS: Winicjusz Stanik - Team Leader,

Michał Janeczek,

Rafał Konieczny,

Tomasz Łaczek,

Krzysztof Sikora

FIELD OF SCIENCE: chemical sciences, life sciences and biotechnology, materials engineering, petroleum industry - production of fuels and biofuels

SHORT DESCRIPTION:

The invention subject consists of a biocidal - stabilising composition for biofuels. It is known that biofuel storage and distribution conditions increase its susceptibility to microbiological infection. The microbiological infection results in the fuel turbidity and filterability deterioration. In many cases microbes in contact with water form a biofilm strongly adhering to tanks surfaces. The biofilm matrix structure is stabilised due to extracellular polymeric substances (EPS). A biofilm formation is a process consisting of many stages. Biofilm affects electrochemical processes proceeding on the metal surface. The electrochemical processes proceeding on the metal surface break the passive layer and pitting or even crevice corrosion occurs, very difficult to monitor and being the reason for tank walls damage, threatening with fuel leakage. A biocidal - stabilising composition for biofuels features improved biocidal - stabilising properties through inhibition of biofilm matrix formation and prevention of microbiologically induced corrosion. It contains a surfactant with properties highly wetting the surface, preventing irreversible adhesion of microbes and a biocidal compound, containing in particular oxazolidine groups, oxidation inhibitor, a hydrocarbon solvent, and a co-solvent.

THE ESSENCE OF THE INVENTION:

The invention subject consists of a biocidal - stabilising composition for biofuels, in particular for fatty acids methyl esters as a biocomponent to the diesel oil or an independent alternative fuel to the diesel oil. It is known that biofuel storage and distribution conditions increase its susceptibility to microbiological infection. This manifests in precipitation of deposits and slurries, biofuel propensity for emulsification, and permanent emulsions increase the bioesters propensity for hydrolysis and increased acid number. A microbiological infection results in the fuel turbidity and in filterability deterioration, in increased pollution in the form of deposits, in fuel colour and smell change, and in increased viscosity. In many cases microbes in contact with water form a biofilm strongly adhering to tanks surfaces. The biofilm matrix structure is stabilised due to

extracellular polymeric substances (EPS). A biofilm formation is a process consisting of many stages. In the first stage microbes are initially connected to the tank surface by weak bonds, remaining in permanent contact with water. This is a reversible process (reversible adhesion) and if the deposits microbes are not removed, in the next stage referred to as irreversible adhesion they enable accumulation of other microbes, forming a thin layer and a framework of the matrix through extracellular polymer substances (EPS), giving the biofilm matrix a specified permanent 3D structure. Biofilm affects electrochemical processes proceeding on the metal surface, reducing the corrosion resistance of the passive layer. Microbes causing destruction of the steel passive layer are both aerobic and anaerobic bacteria. A thick layer of biofilm matrix and concentration of aerobic and anaerobic bacteria on the surface result in an oxygen deficit and the iron surface is repassivated. The electrochemical processes proceeding on the metal surface break the passive layer and pitting or even crevice corrosion occurs, very difficult to monitor and being the reason for tank walls damage, threatening with fuel leakage.

What is the innovation in the invention

The biocidal - stabilising composition for biofuels contains a combination of active biocides compatible with oxidation inhibitors, preventing microbiological contamination of the fuel and formation of a biofilm matrix, being the reason for microbiologically induced corrosion of steel surfaces of tanks and pipelines. It contains a surfactant with properties highly wetting the surface and preventing irreversible adhesion of microbes through desorption on the metal surface. In the fuel phase it solubilises and dispergates extracellular polymer substances secreted by microbes forming the biofilm matrix.

Impact on the ecology and safety

The invention application prevents tank failures caused by microbiological corrosion of contaminated fuel, contamination of water and soil.

Impact on people

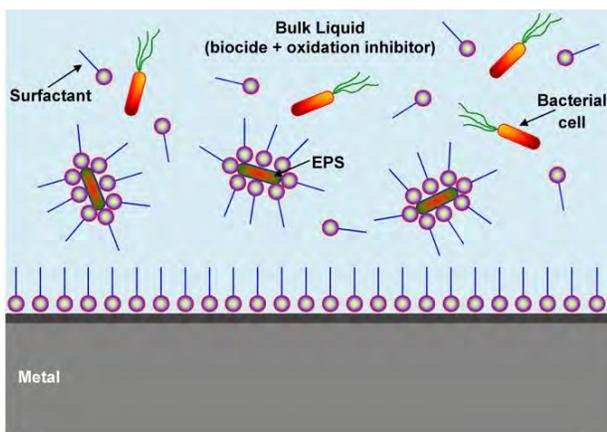
The applied solution is safe for human health during biofuels refining and as well as fuel storage tanks service and distribution to petrol station chains.

Invention application

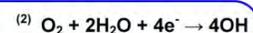
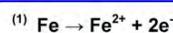
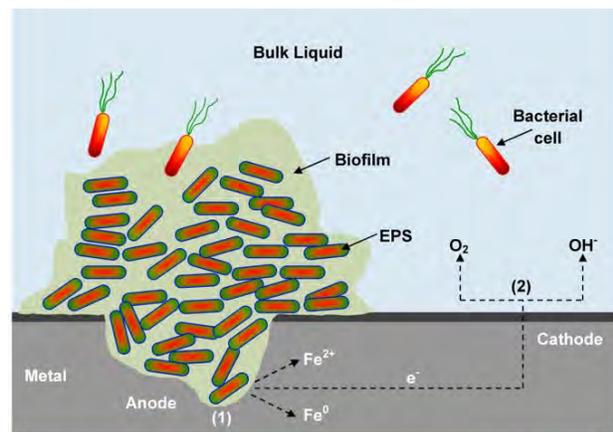
In the oil industry during fuels storage and transport as well as in petrol station chains.

COMMERCIALIZATION POTENTIAL:

A biocidal - stabilising composition for biofuels was submitted to the Patent Office of the Republic of Poland on May 6, 2019 and put into production at Department of Experimental and Small-Scale Production and Sales of the Oil and Gas Institute - National Research Institute. Three biocidal and stabilizing compositions for fuels were implemented in production: Bioxiten® 34, Bioxiten® 60 and Bioxiten® 70, taking into account the needs and essential requirements of producers of fatty acid methyl esters (FAME). The sales of those protected by the invention PL 237018 granted by the Patent Office of the Republic of Poland on March 8, 2021, also protected by the Bioxiten trademark, was from May 2009 to December 2021, respectively: Bloxiten® 34 (8020 kg), Bioxiten® 60 (92 040 kg), Bioxiten® 70 (81,900 kg).



Inhibition microbiologically influence corrosion



Microbiologically influence corrosion

Korea International Women's Invention Exposition 2021

IFIA Best Invention Medal Is Awarded to SON MIN-WOOK from the Republic of Korea for the invention "Bag for baby carrier"



Korea International Women's Invention Exposition 2021



Korea International Women's Invention Exposition 2021

IFIA Best Invention Medal Is Awarded to Ruth Aracelis Manzanaras Grados, Lucía Ximena Pejerrey Florián, Jessica Porrás Real, Cielo Alejandra Cerna Tantaleán, Desireé Timana Vergara, Deivid Junior Yábar Gamarra, José Anthoni Paredes Alarcón, Kevin Pablo Jaramillo Campomanes, José David Martel Vilca from The National Institute for the Defense of Free Competition and the Protection of Intellectual Property of Peru for the invention "Interactive thematic handwashing station in community spaces for infants"

Istanbul International Inventions Fair - ISIF 2021

IFIA Grand Prix Is Awarded to Professor MEVLUT GÜRBÜZ from Turkey for the invention "Waste Aluminum-based MULTI-LAYER function"



Istanbul International Inventions Fair - ISIF 2021

IFIA Best International Medal is Awarded to Putry Ranadani, Yasinta N.A, Wafa N.A, Febriansyah D.P from Indonesia for the invention "Mycoremediation and Zeolite Filter with Sensor for Textile and Batik Wastewater Treatment"

Istanbul International Inventions Fair - ISIF 2021

IFIA Academic Prix is Awarded to professor Oğuzhan Külekçi from Turkey for the invention "Efficient Encryption Method to Secure Data with Reduced Number of Encryption Operations"



Istanbul International Inventions Fair - ISIF 2021

IFIA Best National Medal is Awarded to İsmet Aslan from Turkey for the invention "ATA Quality of Air Monitoring and Air Sampling Device"

Korea International Women's Invention Exposition 2021

IFIA Best Invention Medal Is Awarded to SON MIN-WOOK from the Republic of Korea for the invention "Bag for baby carrier"



International Trade Fair for Ideas, Inventions and New Products – iENA 2021

IFIA Medal Awarded to the KOSPO Company from South Korea for the invention "Method for Treating Exhaust Gas of Thermal Plant"

Challenge and Innovation Forum in Qatar “CIF 2021”

IFIA Medal Awarded to Mrs. Nuha AbuYousef
from Jordan for the invention “Oko Blink”



Challenge and Innovation Forum in Qatar “CIF 2021”

IFIA Medal Awarded to Mr. Khalid Aboujassoum from Qatar for the invention “Oliver- The Smart Robot Chef”



**Moscow International Salon of Inventions and Innovation Technologies
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29th to 31st of March 2022 in Moscow, Russia
www.archimedes.ru



Jubilee XV International Invention and Innovation Show

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International Invention and Innovation Show
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11-12 May 2022 in Katowice, Poland
www.intarg.haller.pl

The poster features a green background with white and blue accents. At the top, a white banner contains the text '13th INTERNATIONAL EXHIBITION OF INNOVATIONS IN THE FIELD OF AGRICULTURE, FOOD INDUSTRY AND AGRICULTURAL MECHANIZATION'. Below this is a circular graphic showing a hand holding soil with a small plant growing from it, surrounded by icons representing various agricultural and food industry concepts. The main title 'Agro ARCA' is prominently displayed in the center, with 'Agro' in a stylized script and 'ARCA' in bold blue block letters. Below the title, the dates 'May 13th - 15th 2022' and the location 'DG Sport Ltd. - Hotel Panorama Prelog, Croatia' are listed. At the bottom, two white banners specify 'WORKING HOURS 10:00 - 18:00' and 'FREE ENTRY'.

13th INTERNATIONAL EXHIBITION OF INNOVATIONS IN THE FIELD
OF AGRICULTURE, FOOD INDUSTRY AND AGRICULTURAL MECHANIZATION

Agro
ARCA

May 13th - 15th 2022
DG Sport Ltd. – Hotel Panorama
Prelog, Croatia

WORKING HOURS 10:00 - 18:00
FREE ENTRY

International Fair on Innovation in Agriculture, Food Industry and Agricultural Machinery - AGRO ARCA 2022

13 – 15 May 2022 in the Town of Prelog, Croatia
www.agro-arca.com



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Virtual Event | **21-25** March 2022

Innovation Awards Submission is now open

INTERNATIONAL INNOVATION AWARDS 2022

ASIAN YOUTH INNOVATION AWARDS 2022

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www.mte.org.my

The graphic features a dark blue background with a stylized city skyline at the bottom. A large, glowing gold starburst is on the left. A gold-bordered rounded rectangle contains the award information. Three gold award medals with globe icons are displayed. The website URL is at the bottom.

Malaysia Technology Expo “MTE”
21-25 March 2022 in World Trade Centre, Kuala Lumpur,
Malaysia - Virtual Event
www.mte.org.my



EUROINVENT
European Exhibition of Creativity and Innovation
26 - 28 May 2022 in Iasi, Romania
www.euroinvent.org

NIGERIA INNOVATION AND INVENTION CHALLENGE (NIIC) 2022

Do you have an **invention** or **innovation** to solve the current challenges in Nigeria?

Join the challenge and receive

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Sign up for FREE! www.ociip.org/niic

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The banner features a starburst graphic with 'Sign up for FREE', a central text area with a question and prize amount, and a bottom section with contact information and a website link. It also includes small icons of a globe, a laptop, and a smartphone.



Nigeria Innovation and Invention Challenge (NIIC)
Stage 1 – Online Assessment: 15th – 29th March 2022
Stage 2 –Social Media Campaign: 5th – 19th April 2022
www.ociip.org/niic/

BIIS

3rd Beirut International Innovation Show 2022

ONLINE

26-28 May 2022

Organized by



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www.nasr.org.lb/biis

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IFIA INTERNATIONAL FEDERATION OF INVENTORS ASSOCIATIONS
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International Invention Innovation Competition in Canada (iCAN)
27 August 2022 in Toronto, Canada.- “Online Event”
www.tisias.org

The graphic features a blue and purple gradient background with abstract wavy shapes. At the top, the text 'IN'HUB' is written in large, bold, white capital letters, with 'INTERNATIONAL FORUM OF INNOVATORS' in smaller white capital letters below it. In the middle, the heading 'What is IN'HUB' is followed by a text box containing a description of the forum, its hybrid format, and its stages. At the bottom right, the 'IN'HUB' logo is repeated twice in a stylized, outlined font.

IN'HUB

INTERNATIONAL FORUM OF INNOVATORS

What is IN'HUB

International Innovators Forum IN'HUB is a platform designed to bring together inventors, investors and business to promote innovative process throughout the globe.

The event will be held in hybrid format.

2 stages :

- Online (2021- 2022)
- Offline (October, 2022, Novosibirsk, Russia)

IN'HUB
IN'HUB

International forum of innovators, IN'HUB
October 2022 in Novosibirsk, Russia
www.in-hub.ru/en



Seoul International Invention Fair “SIIF”
16 - 19 November 2022 in COEX, Seoul, Korea
www.kipa.org/siif



The poster features a dark blue background. At the top, the text 'INTERNATIONAL WARSAW INVENTION SHOW' is written in white, with 'INTERNATIONAL' in a smaller font inside the 'W' of 'WARSAW'. Below this, a stylized map of Poland is shown with 'POLAND' in white and 'WARSAW' in white on a red background. The main title 'IWIS 2022' is in large, light blue letters, with '2022' in a smaller font. Below the title, the dates '17-19 October' are written in white. The bottom half of the poster is decorated with a pattern of white gears of various sizes, each containing a different icon representing technology, science, or industry. The background of this section is a grid of binary code (0s and 1s) in light blue. At the very bottom, the website address 'www.iwis.polskiewynalazki.pl' is written in white.

INTERNATIONAL WARSAW INVENTION SHOW

POLAND
WARSAW

IWIS 2022

17-19 October

www.iwis.polskiewynalazki.pl

WIS
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17-19 October 2022- Warsaw, Poland

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IFIA Magazine is specifically designed to broaden public understanding about the creative and innovative activities performed all around the world. IFIA biannually-published Magazine is categorized as IFIA official publication. The magazine is disseminated among a wide range of inventors, innovators, invention associations, visitors, other organizations and all of those involved in innovation and invention to raise awareness regarding the developments made in the area of invention.

For comments or questions, contact: info@ifia.com

IFIA mobile application is presented in

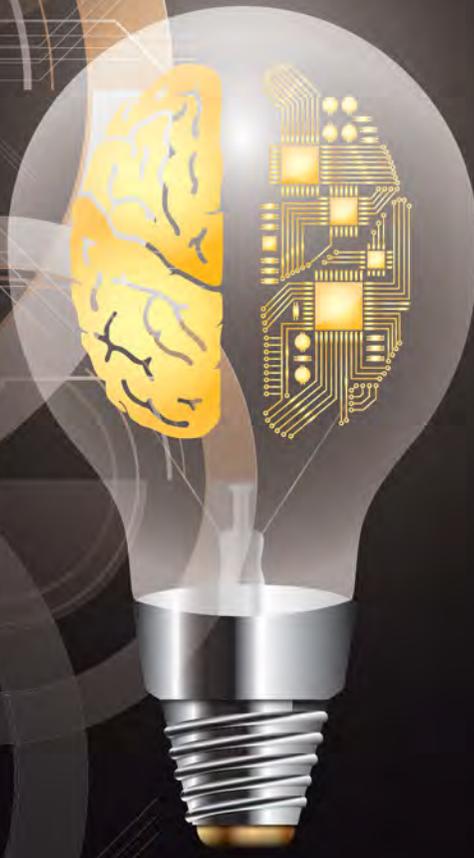


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Innovation Exhibition

2022

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PATENTED IN ENGLAND AND FRANCE.
 This Pump has been used at the Mechanics' Fair in New York, Boston, Baltimore, where it has been exhibited, at New York, Springfield and Worcester, Chesham, Bristol, Syracuse, Springfield and Worcester, and has 50,000 points where it has been used. It is always ready to start without stopping, consequently it is always ready to start without stopping, and it does not require hand work to start the pump, and is the only Pump made that will work in winter, and is always ready to start with water, consequently it is always ready to start with water, and is filled with cold water of condensation. It has been used for more than eight years for pumping any STEAM BOILERS, and has been used more than 100,000 times in every day in the world.



on LOCOMOTIVES, and the only Steam Pump used for pumping water in the world. It has been extensively used for pumping water in Hotels, Public Institutions, and in every kind of work. Office: Brighton, N.Y. No. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.

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 It is probable that the conveniences of the railroad shops of the world and the experience and talent of those who manage them are not materially different as regards efficiency from other manufactories. Local causes intervene, as in other cases, to heighten or lessen results, to spur men on or deaden their effort, but in the long run the fittest survive in every country, while their unfortunate brethren go to the wall. In order to construct cheaply, manufacturers must have continuous work and in sufficient

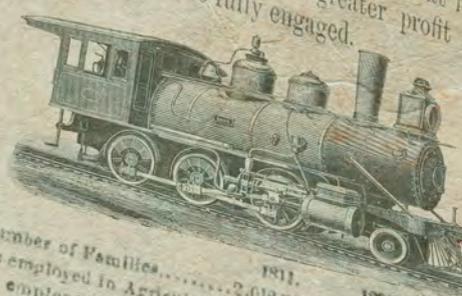


Russian Freight Locomotive. Designed for heavy work on steep grades, where conditions of bridges make it necessary to distribute the load on the drivers to the minimum. Diameter of cylinders, 12.00 and 18.11 in.; stroke, 21.65 in.; diameter of driving wheels, 43.31 in.; weight of locomotive, 92,075 lbs.; water capacity of tender, 2,360.0 gals.; wood capacity, 8,969 lbs.; weight of tender, 23,813 lbs.

in England, have not changed materially in twenty years, — except that manufacturers have increased, we will take the subdivision of labor in England from McGregor's Statistics, giving the Census of 1831. In some future articles, we will give the results of the recent Census, and the changes in employments at different periods. The following are the proportions of families employed in three great classes, as ascertained by the Censuses of 1811 and 1831 in Great Britain:

	1811.	1831.
Families employed in Agriculture, 697,353	697,353	761,349
Manufactures, Trades, and Professions, 243,589	243,589	1,152,942
Families who are engaged in Trades, Professions, and Occupations, 591,450	591,450	601,678

quantity to keep the maximum amount of machinery and labor actively employed. If work is irregular or insufficient to utilize appliances, there is waste which shows in the increased cost of the product. It is with the builders of cars and locomotives with the operation of railroads. A company has sufficient traffic to keep its property profitably occupied can do business at less and, consequently, with greater profit than a company not so fully engaged.



Total number of Families	1811.	1831.
Families employed in Agriculture	2,012,351	2,745,306
Families employed in all other avocations	697,353	761,349
Proportion of the whole employed in agriculture	1,315,038	1,983,968
Proportion of the whole employed in other avocations	34.7 p. ct.	28 p. ct.



INTERNATIONAL FEDERATION OF INVENTORS' ASSOCIATIONS

