



# 2022年第10屆澳門國際創新發明展

The 10<sup>th</sup> Macao International Innovation and Invention Expo (MiiEX) 2022

## 澳門最具規模發明展

Macao's Largest Innovative Invention Expo

發明比賽，發明家交易、交流，免費知識產權講座

Invention Contests, Inventors exchange, Free IP seminar

2022.10.13 ~ 2022.10.15

10:00a.m. ~ 19:00p.m.

展會地點：澳門科學館

Venue : Macao Science Centre

指導單位  
Guidance unit



中國發明協會

China Association of Inventions

主辦單位  
Organizer



澳門創新發明協會

Macao Innovation and Invention Association

協辦單位  
Co-organizers



世界發明智慧財產聯盟總會  
World Invention Intellectual Property  
Associations



香港發明創新總會  
Hong Kong Federation of  
Invention and Innovation



香港發明協會  
Hong Kong Invention  
Association

支持單位  
Supporters



國際發明聯盟協會



媒體合作夥伴  
Media Partners



澳門衛視西部機構  
Macao Satellite TV Western Organization

電郵 / Email: [info@miiex.net](mailto:info@miiex.net)

網址 / Website: <http://miiamacao.org>

## 1. Purpose:

In response to the guidelines given in the China's Fourteenth Five-Year Plan, the Guangdong-Hong Kong-Macao Greater Bay Area and The Belt and Road Initiative, Macao International Innovation and Invention Expo is intended to develop a platform for entrepreneurs and teenagers from all over the world to introduce and share their brilliant inventions as well as exchanging the advancement and application of science and technology in different relative fields. We also warmly celebrate the 23rd anniversary of the founding of the Macao Special Administrative Region with guests from around the world.

## 2. Significance

For a long time, this event has attracted many participants from all over the world. Many participants reported that they have benefited a lot from the competition. After communicating with players from different regions, they have broadened their horizons and brought new innovative ideas, had a deeper understanding of Macao's more than 400 years of Chinese and Western cultural history.

## 3. The organizational units:

- (1) Guidance unit: China Association of Inventions (CAI);
- (2) Organizer: Macao Innovation and Invention Association (MiiA);
- (3) Co-organizers: World Invention Intellectual Property Associations (WIIPA), Hong Kong Federation of Invention and Innovation (HKFII), Hong Kong Invention Association (HKIA);
- (4) Online Co-organizer: Huafa 7IPR National Intellectual Property Operation Platform;
- (5) Support Units: International Federation of Inventors' Associations (IFIA), Macao Science Center, Guangdong-Hong Kong-Macao Greater Bay Area Innovation and Invention Association;
- (6) Media Partners: Macao Satellite TV Western Organization/The Patent Magazine (IFIA & MiiA Official Media Partner, <https://www.thepatent.news/>).

**4. Exhibition venue:** The conference hall of the Macao Science Center [ Conference Hall, Lobby Exhibition Center, Exhibition Center Atrium G15 exhibition hall]

## 5. Competition items :

Innovative Invention Project (Participants can choose to participate in online or on-site exhibitions)  
Enterprises, students (individuals or groups of 7 people), individuals or groups (within 7 people)  
participate in the competition in the form of innovation and invention projects.

## 6. Important Events Schedule :

With the influence of the COVID-19 pandemic, the 10<sup>th</sup> Macao International Innovation Invention Expo (MiiEX) will be conducted online and on-site. An award ceremony will be held at the Convention Hall of Macao Science Center. All of you are welcomed to attend the grand event.

- (1) The online registration will be effective on 12/8/2022, Applications will close at 6 p.m. on 12/9/2022 ;
- (2) On 24/9/2022 (Saturday), 25/9/2022 (Sunday), 8/10/2022 (Saturday), and 9/10/2022 (Sunday), the participants in the online competition will be judged online. If there is any problem due to the epidemic, the participants in the offline exhibition will also be arranged for online evaluation;
- (3) Decoration of exhibition: 12/10/2022 1P.M. to 6P.M. ;

- (4) On-site review by the international judging panel (on-site participants): 13/10/2022 to 14/10/2022 (Sunday) 10 A.M. to 7p.m. ;
- (5) Welcome dinner (invitation only): 13/10/2022 ;
- (6) The booth in the lobby exhibition hall will be dismantled at 6:00 P.M. on 14/10/2022 to prepare for the roadshow and award presentation ceremony the next day ;
- (7) The results announcement date on the website and in the conference hall of the Macao Science Center: 15/10/2022 at 3:00P.M. ;
- (8) Award Presentation Ceremony: 15/10/2022 at 4:30P.M. in the conference hall of the Macao Science Center ;
- (9) "Culture Journey": 16/10/2022, 9 A.M. to 5P.M..

## **7. Registration and online registration procedures:**

- (1) Please contact MiiA, Expo Advisors, co-organizers or support units for further instructions and procedures before 12/8/2022. The relevant units will provide accounts and passwords required for online registration procedures;
- (2) The online registration system will be open from 12/8/2022 to 12/9/2022 at 18:00 MACAO time;
- (3) It is important for participants to complete the online project registration before 12/9/2022 (<http://www.miiex.net/>) ;
- (4) If the registration is successful, the sentence "completed, thank you!" will be shown up after the final submission. But in order to ensure that the registration has been completed successfully, please log in again with your account and password. If the data exists, it means the registration is successful.

## **8. Eligibility:**

- (1) Individuals, enterprises and students are welcomed to sign up for the competition in the two participation categories, the Enterprise/Individual category and the Students Categories.
- (2) Innovative, advanced, scientific and practical inventions completed within the past year (after 9/2021);
- (3) Exhibits that have participated in any previous MiiEX exhibitions are not qualified for registration (except those with obvious and distinct improvement);
- (4) Scientific research papers cannot be registered for this Expo.

## **9. Video submission requirements:**

- (1) Taking into account the protection of the intellectual property rights of the inventors, and in order to prevent the video of the invention from being published on the public website, the video file will be uploaded to the server of the registration system. The video is required to be in MP4 format at 1080P/30fps, 16:9 horizontal resolution, within 3 minutes and the file size is less than 30M;
- (2) Video duration: Within 2~3 minutes (including the opening and ending of the video), the video should include but not limited to the following contents: introduction of the creation process of the project, the characteristics of the innovative invention, creativity, marketability/profitability, and operability.

## **10. Requirements for research report submission of projects:**

- (1) The report should explain thoroughly in the three main aspects as mentioned in the rubrics: creativity, marketability / profitability and operability. The report should be written no more than 500 words. It is recommended to include diagrams of the front, left and right views or the structure diagram of your project, it will be better if related research or experiment data is provided ;
- (2) The first page should be reserved for the introduction, and the other pages should include the contents as mentioned. In order to let the judges know more about the project, the patent certificate (if

any) can be posted in the report; any previous award certificate can also be included (if any, only the highest award certificate; other awards history can be listed in words);

(3) The report should be no more than 4 pages of A4 paper, with one poster introducing the invention. Please compress the picture if necessary and submit it in PDF format, the document should be less than 6MB;

(4) The name of the file should not be too long, preferably in 10 characters, and should not contain ( ) and””.

### 11. Exhibitors’ notices:

(1) The awards of all winners will be sent by international airmail. Please provide accurate and detailed address (Chinese or English) and postcode ;

(2) Each entry is only accepted to be completed by a maximum of three participating units or seven inventors. The relevant information must only appear on the same certificate and cannot be separated.

### 12. On-site Participants: Exhibition booth, exhibition stand:

(1) size of exhibition booth and exhibition stand:

a). Exhibition booth area:  
3m(length)×2(width)×2.5m(height)



b). Exhibition stand area:  
1m(length)×0.45m(width)×2.5m(height) , height of stand  
o.75m(stand)



(2) On-site Participants: Exhibition booth, exhibition stand and charge table1

	Type of exhibition booth & exhibition stand	unit price
1.	3 m ×2 m standard booth Remarks: maximum for 3 exhibits	USD2,600/EUR2,574 per booth
2.	1m(length)×0.5m(width)×2.5m(height) exhibition stand Remarks: for 1 exhibit and student only	USD500/ EUR495 per exhibit

(3) On-site Participants: Configuration exhibition booth exhibition stand table2

	exhibition booth:	Exhibition stand:
1.	3m ( width ) ×2m ( depth ) , three-sided exhibition board please prepare your own necessary decoration	One exhibition stand and one chair
2.	<ul style="list-style-type: none"> <li>●One Fascia Board (maximum 50 words in English)</li> <li>●3 spot lights of 23W, 1 chair and 3 table, three 13-A sockets</li> <li>●Please print out the exhibition decoration and stick at the scene.</li> </ul>	Please print out the exhibition decoration and stick at the scene.
3.	Extra charges if additional power or socket needed	Extra charges if additional power or socket needed

### 13. Charge and arrangement:

- (1) Each standard exhibition booth can put up 3 exhibits, exhibitors who have fewer than three exhibits will be arranged to share with others and the cost of each exhibit is USD960/EUR951. The exhibition stand is only available to students and can put up one exhibit only, the charge is based on the above table1;
- (2) Charges of each exhibit include cost of exhibition booth/exhibition stand (basic electricity, tables and chair), evaluation fee for a project, an award certificate and medal (only for those having awarded)
- (3) The conference will issue relevant registration forms to all participants. If you need to purchase additional award certificates or medals, please fill in accordingly;
- (4) There will be no refunds whether the registered participants attend in the "Cultural Tour" or not ;
- (5) If you are participating in the offline exhibition, it may be turned into an online exhibition due to the impact of the epidemic. If so, it will be arranged to conduct an online review with the judges. Whether to participate in the online review is free for the participants to choose.

### 14. "Cultural Tour" in Macao

- (1) Tickets for additional tickets for Cultural Tour need to be purchased, it is USD60/EUR59.40 for each. Registration is required at the time of registration, and on-site additional purchases are not accepted;
- (2) Ticket for Cultural Tour includes coach transfer, entrance fees to tourist attractions, tour guide fees and lunch fees (Note: Insurance is not included, please purchase by yourself).

### 15. Poster format of showing boards of exhibition booth and exhibition stand:

- (1)Poster Size : 90mm(w) x 120mm ( h ) ; Electronic AI posters will be provided to online and on-site exhibitors ;
- (2)Display board posting requirements: In order to avoid damage to the board, the conference will provide double-sided adhesive tape, please collect it from the on-site staff.

### 16. Evaluation Rubrics:

- (1) All participating projects will be reviewed and evaluated according to the rubrics given (Table 3);
- (2) Participants' introduction videos take up 50%; post and project introduction materials submitted in the online registration take up another 50%;
- (3) An International Jury Panel will be invited from CAI, WIIPA, HKFII and HKIA and friendly organizations around the world to review the projects.

Table 3

Evaluation Rubric	
Creativity	Innovative Function (10%)
	Innovative (10%)
	Application of Scientific Nature (10%)
	Patentability (10%)
Marketability & Profitability	Environmentally Friendliness (10%)
	Market Demand (5%)
	Social Contribution (5%)
	Appearance (shapes, colours, and sizes) [5%]
	Exquisiteness (5%)
Operability	Operation (10%)
	Structural Rationality (10%)
	Overall Collocation (10%)

## 17. Invention categories:

Table 4

Invention Categories	1. Aerospace & Aviation	11. Household Items/ Infant & Child-care
	2. Agriculture	12. Industrial Design/ Manufacturing Process
	3. Apparel, Fabric and Garment	13. Information Technology
	4. Automotive & Transportation	14. Machines and Equipment
	5. Biotechnology, Health & Fitness	15. Materials
	6. Building and Construction	16. Medical/nursing/special care
	7. Chinese/Western Medicine	17. Office Products
	8. Chemicals	18. Printing & Packaging
	9. Educational Items	19. Sports & Games
	10. Environmental/ Energy	20. Other ( please fill in the relevant category )

## 18. Reward methods:

- (1) Qualified innovative invention exhibits will receive relevant medals (Gold, Silver and Bronze) and award certificates;
- (2) Best Organizer Award will be presented to outstanding organizations with more than 10 exhibits;
- (3) **Outstanding Tutor Award:** There is an Outstanding Tutor Award for innovative invention projects and creative projects. If the participating project wins the gold award, the tutor will receive a certificate of Outstanding Tutor Award (see page 19 for details), which is the same if the project is tutored by multiple teachers, the corresponding number of joint certificates can be issued according to the actual situation, and the individual name will not be issued separately. Please be noted the silver or bronze award will not be considered as the candidate of Outstanding Tutor Award;
- (4) Six participants **(Must have a patent registration)** from each of the two participants categories (enterprise/individual and students) with excellent innovation projects will be granted the Grand Award of the General Assembly in their respective innovation categories. Awards in their respective categories include International Environmental Protection Award, International Innovation Award; International Invention Award, Best Market Potential Award, Guangdong-Hong Kong-Macao Greater Bay Area Awards and The Belt and Road Initiative Award;
- (5) All awards will be presented in the Award Presentation Ceremony, if the winner cannot attend the ceremony in person and not able to send a representative, the award will be sent by express mail to the participants address as registered. Noticed that related expenses will have to be paid by the winner. The postal charges are shown at Table 5. (Countries or regions not in the table will be quoted separately).

## 19. Fees and rules for online participant:

- (1) The registration fee for each project is shown in Table 6; the postage fee for each project is shown in Table 5;
- (2) The fee for each project includes the assessment fee for the project, one award-winning certificate and one side of the medal, but does not include the postage.

Table5

Countries	JPN	KOR	THA	MYS	PHL	VNM	IND	IDN	KHM	Europe	USA	CAN
Postal charges in USD	30	28	27	27	27	27	29	28	27	60	60	60
Postal charges in EUR	---	---	---	---	---	---	---	---	---	59.4	---	---

Table 6

Discounted number of projects	Participation fees	
	USD	EUR
1 to 10 pieces	290	287
11 or more	260	258

## 20. Fees and Conditions for Additional Purchase of Winning Medals or Certificates

- (1) Participants in innovation projects and creative projects who win prizes will be awarded a medal and a Certificate of Merit respectively (one certificate will be issued for those who do not win prizes) ;
- (2) Additional USD \$40 per/EUR 39.6 per certificate is required if additional certificates are purchased.
- (3) Additional USD \$40 per /EUR39.6 per medal will be charged for each additional medal;
- (4) Additional USD \$40 /EUR 39.6 per certificate is required;
- (5) Once the information provided in the application is confirmed, an administrative fee of \$40 will be charged for each certificate if any information needs to be amended in the certificate.

## 21. Official hotel accommodation:

- (1) Harborview hotel. It is just a 5-minute walk from the hotel to the Macao Science Museum;
- (2) Contact: Lap Kei Travel & Development Agency Limited.  
Contact number:  
Miss Yeung (+85363779088 / +8615363779088);  
Mr. Wen (+85363770688 / +8615363770688);



## 22. "Cultural Tour" Itinerary:

Time	Itinerary on 16/10/2022(Sunday)
8:30 am	Gather and depart at Harborview Hotel (please check out and bring your luggage).
9:00 am	Golden Lotus Square, Ruins of St. Paul Church, Macao Museum, A-ma Temple
12:30 pm	Lunch at Grand Plaza Restaurant
1:30 pm	Ha Sac Beach, Parisian (Photo taking outside), the Venetian, Casas- Museum of Taipa
16:30pm	Drive to the airport or piers (please submit flight schedule for earlier arrangement)

### Remarks:

- (1) Due to the traffic arrangement, participants who do not stay in the Harborview Hotel need to gather at the lobby of Harborview Hotel Lobby at the above-mentioned time, late comers will not be waited;
- (2) Sight-seeing spots may alter according to the organizer's arrangement, participants cannot complain for such changes.

## 23. Transportation:

- (1) Participants can take the free shuttle bus (10:00A.M. to 7:00P.M.) or a taxi to Harborview Hotel at the Macao Border Gate (on the left-hand side of the exit gate) ;
- (2) Other ports can be approached by taxi.

## 24. Lunch supply:

- (1) The organizer will help order lunch boxes from 13/10/2022 to 15/10/2022. Each lunch box charges USD7/ EUR6.9each, please register when submitting the enrollment form;
- (2) Vegetarian meals and Muslim meals should be remarked when enrolling, such service will not be added at the scene.

Note: There is a dining area in the conference center of the Macao Science Museum, which will be arranged under the guidance of the staff.

## 25. Food:

- (1) There is McDonald's and other fast-food restaurants in 'Macao Science Center';
- (2) A 10-minute walk to Fisherman's Wharf, where there are many restaurants to choose from.

## 26. Payment:

- (1) Please remit the relevant fees to the following accounts:
  - Bank of China Macao Branch Account Name: Macao Innovation and Invention Association;
  - Account Number: 00180101207974131 SWIFT CODE: BKCHMOMX;
  - Address: Rua Silva De Mendes No.1 Edf. On Fai 8 Andar Macao;
- (2) **Any transaction fees involved in the transfer must be covered by the transferee;**
- (3) **After the successful payment, and the proof (remittance receipt scanning copy) uploaded to the registration system. The registration program will be completed after confirming the payment;**
- (4) Please complete your payment before 16/9/2022, any entries without payment will be disqualified.

## 27. Contact for queries and information:

If you have any queries, please email to [info@miiex.net](mailto:info@miiex.net).

## 28. Supplementary provision:

- (1) All the participating exhibits must be original and do not involve in any form of plagiarism. Such legal consequence should be responsible by the offenders. Patented participating exhibits should provide copy of patent or relative patent number for reference. If the exhibitors are not patent holder, please provide relative power of attorney from patent holder;
- (2) Any decisions from the organizer are the final one. Objections and appeals will not be considered. the organizer has the right to alter any regulations without prior notification. Any changes will comply with the final announcement of the event organizer (MiiA);
- (3) The event organizer (MiiA) has the right to explain and alter the rules and regulations of this expo, use any pictures and videos of all the participating exhibits, participants may not object such policy.
- (4) To speed up the award presentation process, staff will be notified in advance to prepare for the awards presentation ceremony. All awardees will be invited to take photos with the guests on the stage with their certificates and medals.
- (5) As the projects on display will be Macao Science Center in the conference hall, Foyer Exhibition Centre and Hall G15 of the foyer of the HKCEC respectively, therefore, the specific arrangement of each project will be arranged by the exhibition location, participants are not allowed to raise any objections.

## 29. Annex:

Cloud link to the 10th Macao International Innovation and Invention Expo 2022 online guideline and research report templates and poster design templates:

(<https://drive.google.com/drive/folders/10MfL4nHI32LOzPI6s8oGvIG-6VwfUrdh?usp=sharing> )



# Review of the 9th Macao International Innovation and Invention Expo 2021



Officials from the Liaison Office of the Central Committee of the Communist Party of China of Macao, representatives from relevant departments of the Macao SAR government and social celebrities attended the ribbon-cutting ceremony at the opening ceremony of the 9th Macao International Innovation and Invention.



Group photo

**澳門創新發明展473件作品歷屆之冠**

【本報訊】由中國發明協會指導，澳門發明協會主辦的「2021年第九屆澳門國際創新發明展」(The 9th Macao International Innovation and Invention Expo 2021)自14個國家的學校、企業、個人踴躍參加，創下歷屆之最，使其成為歷屆之最。展會共收到來自14個國家的學校、企業、個人踴躍參加，創下歷屆之最，使其成為歷屆之最。展會共收到來自14個國家的學校、企業、個人踴躍參加，創下歷屆之最，使其成為歷屆之最。

【本報訊】由中國發明協會指導，澳門發明協會主辦的「2021年第九屆澳門國際創新發明展」(The 9th Macao International Innovation and Invention Expo 2021)自14個國家的學校、企業、個人踴躍參加，創下歷屆之最，使其成為歷屆之最。展會共收到來自14個國家的學校、企業、個人踴躍參加，創下歷屆之最，使其成為歷屆之最。

## News Release

# Awards to winners



# International Jury of the 9<sup>th</sup> Macao International Innovation and Invention Expo 2021

## The Honorable International Jury Panel Committee

### The 9<sup>th</sup> Macao International Innovation and Invention Expo 2021 The Honorable International Jury Panel Committee (Listed in Alphabetical Order of Last Name)



Eng. Alaa Hussain Shawqi  
CEO of Al Aman Al Mutaahida Co.  
(IRAQ)



Prof. Chan Mithona  
Vice Dean College of Sciences  
and Head of Electrical and  
Electronics Engineering  
Department (CAMBODIA)



Dexter A. Moreno Philippine  
Delegate to International  
Science Contest! Science  
Educator in the United States  
of America



Ms. Edyta Wolczyk  
CEO of INNOVATIVE BUSINESS  
SOLUTIONS Global  
(POLAND)



Ms. Ericha Insan Pratiwi  
President of  
Indonesian Innovation and  
Invention Promotion  
Association



Prof. Dr. Lee, Juhyung  
Chairman of Korea University  
Invention Association



Mr. Majid EL OUAZZAOUI  
President of OIBED  
(Morocco)



Mr. Moonsuk Chang  
Chairman & Chief Exhibition Officer  
of Toronto International Society of  
Innovation & Advanced Skills  
(Canada)



MSc. Mr. Pham Gia Huan  
Chairman of Bach Khoa  
Maths and Science Club  
(VIETNAM)



Mr. Raman Teja Venigala,  
Chief Technology Officer of  
INNOVATIVE BUSINESS  
SOLUTIONS Global  
(INDIA)



Dr. Wiparat De-ong  
Executive Director of National  
Research Council of Thailand



Mr. Danny, Lai Pak Keong  
APPEAL JURY  
President of MIA

### The 9<sup>th</sup> Macao International Innovation and Invention Expo 2021 The Honorable International Jury Panel Committee (Listed in Alphabetical Order of Last Name)



Mr. Chan, Kei Hong  
General Manager of Foisan Crystal  
Glass and Mirror Co., Ltd



Mr. Alex Chau  
Specialist Director  
Shenzhen Huaya Science and  
Technology Achievements  
Transformation Research  
Institute



Mr. Danny Cheung  
Chairman/Secretary General  
of Hongkong Council for  
Technology & Creation \,  
Hongkong Foundation for  
E-Health Management &  
Application



Mr. Gui Guang Hui  
Headmaster of Southern Chinese  
Baiju Vocational School of Zunyi



Mr. HANGZEN XIN  
Science teacher of Shanghai Xiang  
Ming high school



Mr. HE, ZHONG LIANG  
President of Zhuhai Sid Science and  
Technology Education Center



Dr. Lau Sai Chong  
Chairman of the Hong Kong  
Student Invention Patent  
Program



Mr. Li Zhan Kai  
President of the Zhongshan  
Invention Association



Mr. Nie Qing long  
CEO of Shenzhen Ideas  
Education Technology Co., Ltd



Mr. Shi Churming  
Representative of the China  
Association of Inventions



Mr. Yang Lung, Shih  
The President of Taiwan  
Invention Product Promotion  
Association &  
The Director of International  
Development of WIIPA



Dr. TIEN/PAO-WU  
Chairman of  
The Union Association of Taiwan  
Innovations and Invention

### The 9<sup>th</sup> Macao International Innovation and Invention Expo 2021 The Honorable International Jury Panel Committee (Listed in Alphabetical Order of Last Name)



Mr. Wang Hui  
Teacher of Chongqing Yuzhong  
District Zengjayan primary school



Mr. Hewen Wang  
Secretary General of Dongguan  
Invention Association



Mr. Wang Wanjiang  
Professor teacher of Tianjin  
Experimental Primary School



Ms. Wang Yongsha  
Creative teacher of Chongqing Teng  
Hung chi Creative Invention  
Education Technology Co., Ltd.



Ms. Carol Wen  
The President of Hong Kong  
Federation of Invention and  
Innovation



Mr. Xiao Lin Zhang  
Executive Vice President of  
Shenzhen Enterprise Creation &  
Development Committee



Mr. Xu Peng  
Executive Vice President of  
Huizhou Invention Association



Ms. Yang Libin, Secretary General  
of Committee on caring for the  
next generation, Xiangzhou District  
Education Bureau, Zhuhai City



Mr. YU CHUN JIE  
Vice President of  
Dalian Association of Inventions



Mr. Zheng Xiaogun  
Executive Chairman of Zhuhai  
Science and Technology  
Innovation Promotion  
Association



Ms. Isabel Zhou  
Executive President of  
Technology Innovation  
Association of Shenzhen  
Enterprise



Ms. ZhuXuehui  
Creative teacher of Chongqing  
Teng Hung-chi Creative  
Invention Education Technology  
Co., Ltd.

### The 9<sup>th</sup> Macao International Innovation and Invention Expo 2021 The Honorable International Jury Panel Committee



Professor Zhu Yi Zhun,  
M.D., Ph.D.  
Director and Chair Prof of School of  
Pharmacy of Macau University of  
Science and Technology



Professor Li Jianrong,  
Faculty of Information  
Technology, Macau University of  
Science and Technology,  
Assistant Dean



Professor Xu Qingsong, Faculty  
of Science and Technology,  
University of Macau



Dr. Yongjie Li  
Assistant Professor of  
Faculty of Science and  
Technology, University of  
Macau



Dr. Ip Yun Kit, Perry  
Assistant Professor of City  
University of Macau



Dr. Xing Ya-long  
Assistant Professor of City  
University of Macau



Prof. Iao Sok Soi  
President of Macao Nutrition  
Association Visiting Professor of  
Hebei Medical University



Dr. Li Jining  
Council Member of Macao  
Science and Technology  
Association Director of the Chinese  
Ecological Society



Dr. CHAN KENG LIM  
Vice-Principal of  
Pui Ching Middle School  
(MACAO)



Dr. KOU WENG KIM  
Anesthesiologist of  
YIN KUI HOSPITAL



Mr. Lam Fong  
Eng. Of Macao water Company,



Mr. Chan Hai Man  
Yuet Wah College  
Assistant Master



The 9<sup>th</sup> Macao International Innovation and Invention Expo 2021  
The Honorable International Jury Panel Committee of



Macao Innovation and Invention Association (MiiA)



Dr. Inu Chan King Wing  
Vice Jury Panel Leader  
Chairman of MIIA



Dr. Inu Chan Wing  
FINAL INSPECTOR  
Executive Vice President of MIIA



Eng. Ngai Veng Hou  
Executive Vice president of MIIA



Mr. Lam Weng Kin  
Executive Vice president of MIIA



Eng. Iao chio Kei  
Executive Vice president of MIIA



Mr. Cheung Sei Heng  
Executive Vice President of MIIA



Eng. HE JIANRONG  
Executive Vice president of MIIA



Eng. Wong Wai Hong  
Executive Vice president of MIIA



Mr. Liang Ywing  
Chief Supervisor of MIIA



Mr. Siu Chan Tim  
Vice President of MIIA



Mr. LAM KA CHUN  
Vice President of MIIA



Mr. Chan Kin Keong  
Vice President of MIIA



The 9<sup>th</sup> Macao International Innovation and Invention Expo 2021  
The Honorable International Jury Panel Committee of



Macao Innovation and Invention Association (MiiA)



INSTRUCTOR Chu Wai Kuok  
Executive Chairman of MIIA



Mr. NGAI CHI PAN  
Executive Vice Chairman of MIIA



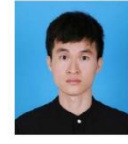
INSTRUCTOR UN KUOK CHIN,  
Executive Vice Chairman of MIIA



INSTRUCTOR YEUNG YAT,  
Executive Vice Chairman of MIIA



INSTRUCTOR LAI SAM TONG  
Vice Chairman of MIIA



INSTRUCTOR LIN YANLING  
Vice Chairman of MIIA



Mr. John Julian Pun  
Deputy Secretary-General  
of MIIA



INSTRUCTOR Leong Kin Keong  
Vice Chairman of MIIA



INSTRUCTOR LAI KIM FEI  
Vice Chairman of MIIA



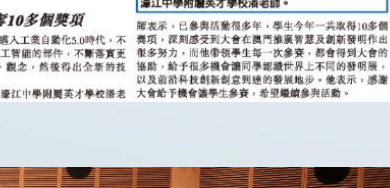
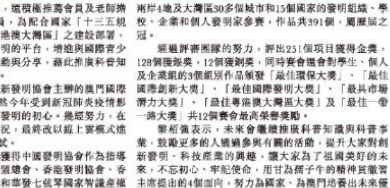
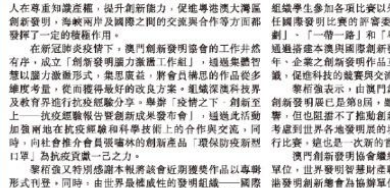
INSTRUCTOR Ho Kuok Wa  
Vice Chairman of MIIA



INSTRUCTOR LEUNG, Man Chung  
Vice Chairman of MIIA



INSTRUCTOR CHU ZHENSHENG  
council member of MIIA



# 創新發明頒獎禮推廣科普事業

【本報訊】為推動澳門培養未來科技人才，澳門創新發明協會舉行「2020年第8屆澳門國際創新發明展頒獎典禮」。澳門創新發明協會會長李國強表示，會繼續推廣科普知識與科學專業，鼓勵更多的年輕人通過參與活動提高大家對創新發明、科技產業的美譽。

澳門創新發明協會昨晚科學館會議廳舉行「熱烈慶祝中華人民共和國成立71周年、澳門回歸祖國21周年及會慶16周年暨2020年第8屆澳門國際創新發明展」頒獎典禮。澳門創新發明協會會長李國強表示，會繼續推廣科普知識與科學專業，鼓勵更多的年輕人通過參與活動提高大家對創新發明、科技產業的美譽。

該會今年共收到來自全球各地的發明作品共391個，屬歷屆之冠。經過評審團的評選，共選出251個項目獲得金獎、128個項目獲得銀獎、12個項目獲得銅獎。同時大會還頒發了個人及全澳的3個類別科學精英獎：「最佳環保大獎」、「最佳國際創新大獎」、「最佳國際發明大獎」、「最佳市場潛力大獎」、「最佳專才大獎」及「最佳一專多能大獎」。共12個獲獎者獲頒獎狀。

李國強表示，未來會繼續推廣科學知識與科學專業，鼓勵更多的年輕人參與科學活動，提升大家對創新發明、科技產業的興趣，讓大家為了祖國美好的未來，不忘初心，牢记使命，用甘為孺子牛的精神貢獻力量，為祖國的發展做出更大的貢獻。

## 培道學生發明全自動口罩消毒機

【本報訊】獲得「澳門國際創新發明展」金獎之「培道中學」學生發明「全自動口罩消毒機」獲頒金獎。培道中學學生表示，本會曾出現口罩短缺，是次發明項目是研製了全自動口罩消毒機，希望推廣應用。

康同學表示，疫情期間，有時外出街一會就會使用一個口罩，並不環保。是次的研發項目是全自動口罩消毒機，能讓口罩循環使用5至6次。他表示，繼續設計過程中出現零件不合尺寸等問題，但最終得以完成，他對研究成果感到興奮。

李國強特別表揚，培養的學校高二學生表示，老師帶領他研製自動電機電池儲能研究項目。全自動電池充電器這套金屬機件，電機機一出現短路就會被察覺，對電工專業人士亦帶來很大困難，得獎項目是針對短路問題進行修復工作，利用高中課程的物理知識結合到項目當中，相信對環保方面有益。



濠江中學附屬英才學校老師。

## 濠江30學生奪10多個獎項

【本報訊】濠江中學附屬英才學校30名學生參加的濠江中學附屬英才學校學生發明作品，在「2020年第8屆澳門國際創新發明展」中奪得10多個獎項。濠江中學附屬英才學校校長表示，學校一直致力於推動學生參與科學活動，提升學生的科學素養。



2020年第8屆澳門國際創新發明展 頒獎典禮

## News Release

## Group photo



Zhu Hong (second from left), Vice Minister of economic Department of liaison Office of the Central Committee of the Communist Party of China, presents souvenirs to representatives of co-organizers.



Lao Ngai Leong (second from the left), honorary president of the association and National People's Congress of Macao, presents souvenirs to excellent organizations.



Mr Lai Chan Keong (sixth from left), member of the executive Committee of Macao Foundation, and Mr Sun Ka Hung (seventh from left), Director of Macao Productivity and Technology Transfer Centre, present souvenirs to the international judges.



The guests presented prizes to the winners

# Review of Macao International Innovation and Invention Expo 2019



The ribbon-cutting ceremony was attended by leaders of the Liaison Office of the Central Committee of the Communist Party of Macao, officials and representatives of relevant departments of the Macao SAR government, social celebrities, guests from both sides of the Taiwan Straits and foreign countries



The cooperation Agreement Signing Ceremony between the Huaifa 7 Intellectual Property Right National Intellectual Property Operation Platform and MIIA.



The cooperation Agreement Signing Ceremony between the Enterons (Guangdong) Technologies Co., Ltd. and MIIA .





### History statistics of Macao International Innovation and Invention Expo

No.	Number of sessions	Year	Country/Region	Quantity of inventions	Attendances	Remarks
1.	The 9 <sup>th</sup>	2021	54	479	503	Online and on-site.
2.	The 8 <sup>th</sup>	2020	45	391	230	Online
3.	The 7 <sup>th</sup>	2019	56	342	362	On-site
4.	The 6 <sup>h</sup>	2018	22	162	313	On-site
5.	--	2017	--	--	--	The Expo was suspended for a session because there was no venue
6.	The 5 <sup>h</sup>	2016	16	156	354	On-site
7.	The 4 <sup>h</sup>	2015	13	162	381	On-site
8.	The 3 <sup>rd</sup>	2014	15	182	183	On-site
9.	The 2 <sup>nd</sup>	2013	14	229	255	On-site
10	The 1 <sup>st</sup>	2012	22	187	240	On-site
Total			257	2,290	2,821	



## Statistics of the 9th Macau International Innovation and Invention Exhibition 2021 (Online and On-site)

No.	Countries/Regions	Inventions	Enterprises	Invention units	Individuals	Schools	Universities	Attendances
1.	Beijing	13	2		10	1		0
2.	Tianjin	28				28		0
3.	Shanghai	64	5		38	19	2	
4.	Chongqing	18	1			17		15
5.	Dalian (Liaoning)	50				50		0
6.	Zunyi (Guizhou)	41				38		155
7.	Luzhou (Sichuan)	5	1		1			
8.	Suining (Sichuan)	1				1		
9.	Changchun (Jilin)	2			1	1		
10.	Changsha (Hunan)	7					7	
11.	Yiyang City (Hunan)	2				2		
12.	Wuhan (Hubei)	2			2			
13.	Xining City (Qinghai)	1				1		
14.	Xinyang City (Henan)	17				17		
15.	Fuzhou (Fujian)	1	1				1	
16.	Xiamen City (Fujian)	4				4		
17.	Shijiazhuang (Hebei)	3	3					
18.	Jiaxing (Zhejiang)	1				1		
19.	Huzhou (Zhejiang)	1				1		
20.	Taizhou (Zhejiang)	1	1					
21.	Nanchang (Jiangxi)	2			2			
22.	Nanjing (Jiangsu)	3			2			
23.	Kunshan City (Jiangsu)	5				5		
24.	Wuxi City (Jiangsu)	2				2		
25.	Nantong City (Jiangsu)	1	1					
26.	Changzhou (Jiangsu)	1			1			
27.	Changshu (Jiangsu)	1	1				1	
28.	Nanning (Guangxi)	2				2		
29.	Qingdao (Shandong)	3				3		
30.	Jinan (Shandong)	3				3		
31.	Guangzhou (Guangdong)	5	2	1		2		3
32.	Foshan (Guangdong)	29	4			25		13
33.	Qingyuan City (Guangdong)	1				1		
34.	Dongguan City (Guangdong)	6	5			1	1	2
35.	Shenzhen (Guangdong)	3	1			2		3
36.	Zhuhai (Guangdong)	5	1			4		5
37.	Hongkong	7	4			1		6
38.	Macao	51	2			50	1	300
39.	Taiwan	31	2	1		10	3	1
40.	South Korea	9	7	1		1		
41.	Russia	6		1		1	5	
42.	Cambodia	3					1	
43.	Indonesia	2	1	1				1
44.	India	2	1	1				1
45.	Vietnam	3		1			2	
46.	Thailand	16	1	2		7	2	
47.	Canada	1		2				
48.	Australia	1	1					
49.	Malaysia	5			1			
50.	Croatia	1			1			
51.	Iran	1			1			
52.	Poland	2					2	
53.	Philippines	3			1		1	
54.	Morocco	1			1			
55.	Total	479						503

## The style of Gold, Silver and Bronze medals



The design of this medal (W85mm : H 95mm) is based on the Ruins of St. Paul's, the historical and cultural heritage of Macao, with unique characteristics and great collection value.



The sample of the award certificate of the 10<sup>th</sup> "Macao International Innovation and Invention Expo in 2022



Project of innovative invention



Outstanding Tutor Award



**Grand Award of The General Assembly**

**Size 255 mm × 22 mm**

**(The package weight is 1.5kg )**