The 3rd International Invention Innovation Competition in Canada, iCAN 2018
Dear Inventors & All the Enthusiasts,

It is our great pleasure to invite you and your organization to participate in the 3rd annual edition of “International Invention Innovation Competition in Canada, iCAN 2018” organized by Toronto International Society of Innovation & Advanced Skills (TISIAS), locally supported by Innovation Initiative Co-operative (IIC) – The Inventors Circle, and internationally supported by the International Federation of Inventors’ Associations (IFIA), and World Invention Intellectual Property Associations (WIIPA).

iCAN is the main event of Canada suitable for participation by international inventors and innovators in all age group. The event consists of an exhibition of inventions, seminar, and award ceremony for the competition of creative ideas and innovative projects by students, individuals, and companies.

As a whole, iCAN provides a brand-new platform of new opportunities for both local and overseas participants to showcase their finest ideas of all industries through invention, innovation, scientific project/research, new products and technologies at an international level in Canada.

Participate in iCAN 2018 “The Preliminaries” by submitting your Application From by email to ican@tisias.org by no later than June 15th and join us at iCAN 2018 “The Finals” on September 1st @ North York Memorial Community Hall in uptown Toronto, Canada.

Please visit us at www.tisias.org/icar-2018 for more detailed information and request for iCAN 2018 Brochure and Application Form by submitting “Request for Forms” directly from the webpage, and we will provide you with the information and guidance.

“We truly look forward to your participation and achieve new success at iCAN 2018!”

Sincerely Yours,

Moonsuk CHANG
Chairman/Chief Exhibition Officer
TISIAS – CANADA
IFIA President’s Message

I would like to extend my profound appreciations to the organizing team of iCAN - International Innovation and Invention Competition in Canada - for providing a unique opportunity for inventors, researchers, engineers and scientists all over the world to present their innovations as well as research issues and gain international recognition.

iCAN 2018 coincides with IFIA’s 50th anniversary and I wish to use this opportunity to offer my sincere congratulations to inventors all around the world, the event organizers, IFIA members and partners who have contributed to the attainment of IFIA’s mission of disseminating the culture of invention and innovation.

Invention and Innovation are the fundamental pillars of every nation through which economic independence, social welfare, and technological development can be gained. IFIA is proud to have contributed to the economic, social and technological prosperity by supporting the inventors, raising their status, enhancing awareness about the importance of invention and innovation in all aspects of our daily lives and supporting the organization of international invention exhibitions.

We are profoundly delighted that the newly established tradition of organizing the first of its kind international inventor’s event in Canada persists and the third annual of iCAN is to be held on September 1st.

IFIA offers its unconditional support to iCAN 2018 due to its underlying concept of disseminating the culture of invention and innovation nationally and internationally which is in parallel with IFIA’s mandate.

IFIA members and the world inventors are highly encouraged to take part in iCAN 2018 which offers you an exceptional chance to display your innovative accomplishments and connect with technology seekers.

Sincerely Yours,

Alireza Rastegar

IFIA President
THE 3RD ANNUAL iCAN 2018
2018 INTERNATIONAL INVENTION INNOVATION COMPETITION IN CANADA

EXHIBITION • SEMINAR • AWARD CEREMONY

Because We Can

International Invention Innovation Competition in Canada
iCAN - TORONTO, CANADA

North York Memorial Community Hall - Toronto, Canada

PRELIMINARIES REGISTRATION PERIOD
JANUARY 15 - JULY 15

EXHIBITION • SEMINAR • AWARDS
SEPTEMBER 1

INFORMATION & REGISTRATION
www.tisias.org | ican@tisias.org

ORGANIZED BY
TISIAS
TORONTO INTERNATIONAL SOCIETY OF INNOVATION & ADVANCED SKILLS

SUPPORTED BY
IFIA
INTERNATIONAL FEDERATION OF INVENTORS' ASSOCIATIONS

A non-profit forum supporting innovative business
2018 International Invention Innovation Competition in Canada, iCAN

Because We Can

North York Memorial Community Hall - Toronto, Canada

SEPTEMBER 1

www.tisias.org | ican@tisias.org

THE 3RD ANNUAL iCAN 2018
2018 INTERNATIONAL INVENTION INNOVATION COMPETITION IN CANADA

EXHIBITION · SEMINAR · AWARD CEREMONY

www.tisias.org | ican@tisias.org
iCAN 2018 “THE PRELIMINARIES”
Applicants were given a 6-month time period to submit their invention/innovation projects as iCAN entry application forms to the organizer. The purpose of the long-term application period was to provide ample time for potential applicants to fully construct their invention/innovation applications, relative paper works and supporting documents, visuals and various references as much as possible to maximize their documented presentations. As the 3rd year event, the organizer realized that situations and circumstances differ in every country and that providing at least half-year registration period was essential to enable participations from many countries.

APPLICATION FORM SUBMISSION
The most important aspect of the Preliminaries was for applicants to widen their ability to present their ideas and articulate it on the application form which contains a freestyle section at the end for inventors to express without being bounded by any specific rules or limits. The quality of idea presentation became the vital factor in the Preliminaries evaluation as inventors not only excelled on their creative ideas of their inventions, but also their creative ways to introduce, describe, and express them using posters and visual attachments, YouTube videos and PPT presentations, internet news references and social media links along with the written abstracts and descriptions.

SELECTION PROCESS
The qualification for Finalists was based on a structured approach of absolute evaluation. The organizing committee reviewed a total of 410 applications from 44 countries around the world throughout the iCAN Preliminaries period and qualified 345 Finalists applications (Refer to the last section of the report for full statistics of the event).

INITIAL DISQUALIFICATION
Applications which did not meet the competition requirements, or failed to abide by the rules and regulations were withdrawn from the entire roster. Applications with insufficient data, unacceptable contents and themes of hazardous components and/or negative effects to social, environmental and/or political wealth were all disqualified from the Preliminaries. Applicants who failed to keep up with the communication with the organizer in the course of the Preliminaries to correspond with required confirmations were automatically eliminated from the roster for holding a long-term incomplete status of their application(s).

END OF THE PRELIMINARIES
The contestants qualified as Finalists were then divided into two final groups based on their decisions to participation methods between: 1) Long-Distance Finalists; complete their iCAN run at the end of the Preliminaries, 2) In-Person Finalists; continue their iCAN run proceeding onto the Finals Exhibition showdown in Toronto, Canada.
I. GENERAL INFORMATION

- **Date/Time:** September 1st from 10am ~ 6pm (exhibitors set-up starts from 9:30am)
- **Location:** North York Memorial Community Hall (address: 5100 Yonge St., North York)
- Located 1 level below North York Central Library within North York Centre

II. EXHIBITOR PROCEDURES

- **Set-up starts from 9:30am, please check in first at the reception desk**
  - Pick up your exhibitor badge(s) and event materials given
- Exhibit area will be assigned upon check-in (wall or poster board)
  - Includes: vertical space for poster, table space and chairs
  - **Poster size:** A1 (recommended) or A0 poster size
  - Tapes for walls and Velcro dots for boards will be provided
  - **Please do not use any other tapes/glue that may damage walls & boards**
- Exhibit space for group exhibitors may be amalgamated together
- **Electricity (110V) and free Wi-Fi connection available for collective use**
III. SEMINAR

“BRAND IT RIGHT, IGNITE YOUR PROFITS WITH HOWARD A. LIM”

Are you thinking too small when it comes to your brand? As the foundation of your company, your brand has the power to influence sales, shareholder value, and relevancy. Your brand is a key factor to build your business for long-term success. Fortune 500 branding and business expert Howard A. Lim will show you how to exponentially attract customers, strategic partners, and investors. You'll gain insights on how to leverage your brand and business—regardless of what product or service you sell—to give you a competitive edge and maintain a winning strategy.

Howard A. Lim is an award-winning business & branding strategist, and the author of Authentic Branding®. His clients include entrepreneurs, business owners, and Fortune 500 brands including Apple, Disney, Oracle, and HBO, to name a few. Since 1987, Howard Lim has earned his reputation as a disruptive innovator, and his boutique firm, HOW Creative. He presents actual before-and-after case studies that have influenced billions of dollars in revenue, and value for companies he has served.

IV. TENTATIVE PROGRAM

09:30 – 10:30  |  Participants Arrival & Check-in
09:30 – 11:00  |  Setting Up Exhibits and Posters
11:00 – 12:00  |  Opening & Jury’s Introduction
12:00 – 12:30  |  Short Break & Jury Meeting
12:30 – 16:00  |  Exhibition and Judging On-Site
16:00 – 17:00  |  Seminar by the Featured Speaker
17:00 – 18:30  |  iCAN 2018 Award Ceremony
18:30 – 19:00  |  Group Photo & Tear Down

*The schedule may have slight time differences

V. AWARD CEREMONY

- Gold/Silver/Bronze Medals
- International Special Awards
- Best Invention Awards
- Semi-Grand & The Grand Prize

VI. EVALUATION RUBRIC

- Oral Presentation Clarity & Coherence
- Key Innovation and its Significance
- Originality and Complexity
- Proof and Supporting Data

The 3rd International Invention Innovation Competition in Canada, iCAN 2018
A total of **42 countries** officially participated in iCAN 2018 which marked the event’s highest record of participating countries in the last 3 editions. In addition, iCAN 2018 had 2 missing applicants join from Macedonia and Pakistan, which then updates a total of **44 countries**.
THE WORLD FINALISTS

iCAN 2018 “The Finals” took place on September 1st at North York Memorial Community Hall in Toronto where Finalists from **19 out of 44 countries** were in attendance from around the world. All North American countries including **Canada, USA, Mexico**; East and Southeast Asian countries such as **China, Taiwan, Hong Kong, Korea, Malaysia, Indonesia, Thailand, the Philippines, Vietnam**; European countries **Poland, Romania, Croatia**; the Middle Eastern countries **Iran, Azerbaijan, Afghanistan**; and the Oceanic country **New Zealand** were all checked in for the Finalists’ Exhibition, Seminar and the Award Ceremony.

The Finals consisted of 3 major programs: the Finalists Exhibition and Judging, Seminar, and the Award Ceremony. The exhibition showcased a **total of 149 inventions & innovations** on display which were introduced to the jury, international delegations, co-exhibitors, and other attendees, visitors and guests that gathered from multi-continental sectors of the world.
INTRODUCTION OF JURY MEMBERS

The jury committee of iCAN 2018 Finals features both local and international experts, endorsed individuals and professionals in the field of invention, innovative research, intellectual property, new product promotions, business branding as well as university professors of engineering and science, tradeshows experts, representatives of inventor associations, networks, forums – altogether as a joint committee of North America, Asia, Europe, and the Middle East, and Africa which maximized the Finals standard level of judging and evaluation.

Co-Chairman: Howard A. Lim – HOW CREATIVE (USA)
Bob Huybrechts, RDT – Innovation Initiative Co-operative Inc. (CANADA)

Vice-Chair: Eng. Andrei Victor SANDU – Romanian Inventors Forum (ROMANIA)

Members: Neven Marković – Croatian Inventors Network (CROATIA)
Mike McFarthing – Innovation Initiative Co-operative Inc. (CANADA)
Prof. Adam Rylski – Lodz University of Technology (POLAND)
Dave Boyle – Innovation Initiative Co-operative Inc. (CANADA)
Dr. Masoud Shafaghi – International Federation of Inventors’ Associations (IFIA)
Dr. Babak Khodaparast – The First Institute of Canadian Inventors (FICI)
Otto Schmidt – Inventors College Organization (CANADA)
Amedeo Pozzebon – Innovation Initiative Co-operative Inc. (CANADA)
Prof. Jerzy Maduzia – John III Sobieski Secondary School (POLAND)
Prof. Hok Ming Kwan – The Education University of Hong Kong (HONG KONG)
Prof. Phan Quoc Nguyen – Vietnam National University (VIETNAM)
Eddie Shih – World Invention Intellectual Property Associations (WIIPA)
Dr. Victoria Ramzy Habib Atta – Former International Jury Member of INPEX®
Dr. Wagdy Rizk Ghali Rizk – Former International Jury Member of INPEX®

The judging of exhibits started from 1:00pm for a 4-hour session. The evaluation rubric focused on the exhibitors’ oral & visual presentation, key innovation and contributions, records and milestones. The organizing committee collected the on-site evaluation results and recommendations from the jury for nominating the winners of iCAN 2018 Finals Awards.
SEMINARY | “BRAND IT RIGHT, IGNITE YOUR PROFITS WITH HOWARD LIM”

Following the exhibition & judging was the international seminar by Mr. Howard Lim, President of “HOW Creative”. Since the first edition of iCAN in 2016, Mr. Lim has been taking a major role in the event as the main speaker of the international seminar as well as the co-chairman of the jury in the exhibition. This year, he extended to share a much more detailed tips and know-hows for a successful and effective business branding strategies to reach greater wealth and opportunities.

Lim believes that every business has an equal opportunity for success with their own unique stories. Since 1987, HOW Creative has partnered with ALL size businesses to develop business, branding and marketing strategies, and help execute powerful and innovative business ideas, and maintain Authentic Brands®. It is from this core expertise, that HOW Creative has evolved into a successful, international firm, whose unique core model includes two district, yet complementary domains; business and branding. HOW Creative’s clients include: Apple, Disney, ABC, HBO, XEROX, CBS, NAMCO, Adobe, HP, Hewlett Packard. (Reference: HOW Creative)
The award ceremony was conducted as the highlight of the event, starting with the presentation of Gold/Silver/Bronze award winners of the Preliminaries, followed by the announcement of the Finals’ top award winners: international delegations’ Special Awards, Best Invention Awards for national, continental and individual categories; and the winners of Semi-Grand Prize, and the Grand Prize.

### iCAN 2018 THE FINALS AWARD WINNERS LIST (TOP SELECTIONS)

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>WINNER</th>
<th>INSTITUTION</th>
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<tbody>
<tr>
<td><strong>THE GRAND PRIZE</strong></td>
<td>Mr. Ming-yan, KU / Dr. Ka-hing, WONG</td>
<td>Beauty Asia Investment Ltd. – HONG KONG</td>
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<tr>
<td></td>
<td></td>
<td>The Next Generation Disposable Sanitary Napkins: Chemical-free, Safe and Eco-friendly</td>
</tr>
<tr>
<td><strong>SEMI-GRAND PRIZE</strong></td>
<td>Jonathan P. Olds / Winston K.G. Seah / Ramesh Rayudu</td>
<td>Victoria University of Wellington – NEW ZEALAND</td>
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<td></td>
<td>AccuMM – Accurate to the Millimetre</td>
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<tr>
<td><strong>IFIA BEST INVENTION AWARD</strong></td>
<td>LEUNG, Yu Cheong / WANG, Yi Fei / KWOK, Yu Ho / PAN, Wending</td>
<td>The University of Hong Kong – HONG KONG</td>
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<tr>
<td></td>
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<td>A flexible paper-based Al-air battery</td>
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<tr>
<td><strong>BEST FEMALE INVENTOR AWARD</strong></td>
<td>Soheila Roshani Takhtameshlo</td>
<td>IRAN</td>
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<td>Smart heavy-car switch using RFID technology</td>
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<tr>
<td><strong>BEST YOUNG INVENTOR AWARD</strong></td>
<td>Aaliyah Yu / Maddox Yu</td>
<td>Evergreen Valley High School / Chaboya Middle School – USA</td>
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<td>Concussion Sensor with Cloud-Based Prediction Model Update</td>
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<tr>
<td><strong>BEST INVENTION OF NORTH AMERICA</strong></td>
<td>Emmanuel Campos Genaro / Jose Israel Romero Flores / Thania Monserrat Montoya Olmedo / Leonardo Tonatiuh Gonzalez Garcia / Luis Antonio Hernandez Moha</td>
<td>General Systech / Instituto Politecnico Nacional (IPN) – MEXICO</td>
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<td>HARVESTTT</td>
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<tr>
<td><strong>BEST INVENTION OF ASIA</strong></td>
<td>Ir. Dr. Mohammad Effendy Ya’acob / Nadirah Roslan</td>
<td>Universiti Putra Malaysia – MALAYSIA</td>
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<tr>
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<td>Dynamic DSSC Mini Greenhouse (D2MG)</td>
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<tr>
<td><strong>BEST INVENTION OF EUROPE</strong></td>
<td>Barbara Gadowicz / Beata Altkorn / Stefan Plak / Kamil Pomykala / Michal Pajda</td>
<td>OIL AND GAS INSTITUTE – National Research Institute – POLAND</td>
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<tr>
<td></td>
<td></td>
<td>Corrosion inhibitor for hydrocarbon streams</td>
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</tbody>
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| BEST INVENTION OF THE U.S.A | Cyrus Nejat  
Mississippi State University / Worcester Polytechnic Institute  
Nejat Aerospace Magnoplane |
|-------------------------------|
| BEST INVENTION OF THAILAND | Ms. Siriganda Teingtung / Ms. Saowarat Meeneam / Ms. Pacharaporn Kalapakdee / Mr. Sastra Promarak  
Princess Chulabhorn Science High School Phetchaburi  
Film from Protein Fibroin Blended Chloroplast to Absorb Carbon Dioxide and Produce Oxygen |
| BEST INVENTION OF HONG KONG | Ms. CHIANG Ngai Ling  
Eminent Bio Energy & Environment Ltd.  
High power water wave power generation for installation on vessel and shore side |
| BEST INVENTION OF I.R. IRAN | Amir Hossein Ebrahim Khemiesari  
University of Guilan  
Producing nano cellulose crystalline as a super material from cellulose pulp of Azolla and agricultural wastes |
| BEST INVENTION OF POLAND | ARTUR GONSIOR / PIOTR BUJNA / RADOSLAW MATUSZCZYK / TOMASZ MACIEJCZYK / MARCIN PUC / ALICJA LUCZAK / BARTOSZ GLAZ / ARKADIUSZ ROSZAK / MATEUSZ GRUSZCZYK / SYMON WOJAKOWSKI / KRZYSZTOF OLSZOK / JAKUB ZUR  
The John III Sobieski Secondary School  
EduChemLab – the innovative educational platform in chemistry for high school students |
| BEST INVENTION OF TAIWAN | Baozhang Feng / Lei Feng  
V.erb Gene Therapy (Tianjin) Co. LTD  
Antigene V-erbB Oligodeoxynucleotide and Its Application |
| BEST INVENTION OF MALAYSIA | Jinghong Low / Soonhin Hew  
Multimedia University  
Memorise Chinese Characters Better with Graphical Association Strategy |
| BEST INVENTION OF ROMANIA | Laurentia Geanina TIRON (PINTILIE) / Stefan BALTA / Andrei Victor SANDU / Kamel EARAR / Ioan Gabriel SANDU / IULIAN GABRIEL BIRSAN / Ion SANDU  
Dunarea de Jos University of Galati  
Procedure for obtaining polymer membranes for water ultrafiltration |
| BEST INVENTION OF CROATIA | MELITA PAVLEK-MOCAN / MIRA MOCAN  
COSMEL d.o.o.  
C COLLAGEN CREAM C-VITAMIN + HYALURON SKIN MATRIX RAPAIR |
| iCAN 2018 SPECIAL INVENTOR AWARD | Haidar Azzamuddin / Arifah Ramadhanis Azzah / Fathor Rahman  
MAN 2 Kota Malang – INDONESIA |
| Jamu Pepaya Jantan as a Novel Medicine for Malaria High Stadium |
| GNANA JOTHY CHIDAMBARAVELU / MOHINISSH SANGGARAN / MUGILIAN MUNIANDY / NISHASRY KARUNAGARAN / SRI SHIVANI SARAWANAN / VIJAYA SUBRAMANIAM  
SJK LADANG WELLESLEY – MALAYSIA  
NATURAL COPPER AND BRASS CLEANSER |
| Dr. Sayedali Mousavi / Dr. Vida Kargar Dehnavi (IRAN)  
Automatic additive multi stage portable three dimensional device for manufacturing of hard and soft organs |
| Ms. CHIANG Ngai Ling  
Eminent Bio Energy & Environment Ltd. – HONG KONG |
| Mr. Ming-yen, KU / Dr. Ka-hing, WONG  
Beauty Asia Investment Ltd. – HONG KONG  
The Next Generation Disposable Sanitary Napkins: Chemical-free, Safe and Eco-friendly |
| Ir. Dr. Mohammad Effendi Ya’acob / Nadirah Roslan  
Universiti Putra Malaysia – MALAYSIA |
| Mr. Manaskawin Phupinyokul / Mr. Tatlya Boonlert / Miss. Naranya Rujanaewech / Mr. Aekarat Rongrsrisoothiwong / Mr. Khunthong Kaythong  
Princess Chulabhorn Science High School Pathumthani – THAILAND  
Biodegradable bag from soybean meal and water hyacinth fiber use rubber as a cementitious material |
| Edward Huang / Austin Huang / Teddy Huang / Vivian Lin / Yen-Jen Wang / Hsiang-Wei Lin  
Portola High School / Portola Springs Elementary School – USA  
TripBrush |
| JAKOV DAMJANOVIC / DRAGO JURIN / ŽELJKO ŠAFRAN  
POSTANSKA I TELEKOMUNIKACIJSKA SKOLA – CROATIA |
| DEVICE FOR MEASURING SOIL Ph |
| Mirabela Georgiana MINCIUNA / Petrica VIZUREANU / Andrei Victor SANDU  
Mohd Mustafa Al Bakri ABDULLAH / Mohd Arif Anuar Mohd SALLEH  
Gheorghe Asachi Technical University of Iasi – ROMANIA |
| A METHOD OF PRODUCING A BIOCOMPATIBLE COBALT-BASED ALLOY |
Kamel EARAR / Andrei Victor SANDU / Ion SANDU / Madalina MATEI
Romanian Inventors Forum – ROMANIA

ECOLOGICAL TOOTHPASTE

LEUNG Chiu Yee / LAM Wah Shing / CHAN Peter / SZE Tsz Ho / MOK Tsz Ling
The City University of Hong Kong – HONG KONG
Twind Turbine

Izabela Wilońska / Beata Kolesińska / Zbigniew Kamiński / Stanisław Karski / Piotr Dziugan
Lodz University of Technology – POLAND
Catalytic method of fuel biocomponent producing from bioethanol

LEUNG, Yu Cheong / WANG, Yifei / KWOK, Yu Ho / PAN, Wending
The University of Hong Kong – HONG KONG
A flexible paper-based Al-air battery
Hassan Mahajer
Minerva Kingdom Org. – USA
Turbine with Dynamically Adaptable Savonius Blades

RISHIKA VIJAYAN / KUMARAVELAN SARAVANAN / THINESHWARAN GOBALAN
Ramresh Sree Sreenivasan / Tamilarasi Saminathan
Sekolah Jenis Kebangsaan (Tamil) Kinrara – MALAYSIA
VERMICOMPOST-BIN-4-ALL

Nguyễn Quang Dùng / Trần Thị Minh Huyên / Vũ Huy Thành
Yen Hoa High School / Dao Tu High School / THE OLYMPIA SCHOOLS – VIETNAM
Smart Tree
Ernest Ho Sing CHAN / Yun Wa WONG / Gary Yu Hin LAM
AESIR Limited – HONG KONG

Panelists

Karen Rahnemoon / Soroush Jahanzad / Seyed Parsa Neshael / Poorya Abbasi / Pooyan Piredeir
Aesir Limited – CANADA

YEKAN, A Novel School Management and Communication System
Mehdi Farzpourmachiani / Dr. Akbar Tahriri Masouleh / Pooyan Piredeir / Ali Farzpourmachiani / Mahmoodreza Gorji
Azerbaijan Inventors – AZERBAIJAN
An adobe designed to trap and absorb the moisture resulting from air and soil getting warm and cold

Mr. Yananthorn Rukthum / Mr. Soravit Waelveerakup / Mr. Ramate Nethwong / Mr. Khunthong Klaythong
Princess Chulabhorn Science High School Pathumthani – THAILAND
Roofing tiles from High Density Polyethylene (HDPE) and Rice Husk Ashes

Dr. Teerapon Tanomsakyut / Mr. Peerachai Asadachatreekul / Mr. Julapong Soathipaisan / Mr. Veerasak Pongthunyawichai
True Corporation Public Company Limited – THAILAND
Get Stray Application
Emmanuel Campos Genaro / José Israel Romero Flores / Thania Monserret Montoya Olmedo
Leonardo Tonatiuh González García / Luis Antonio Hernández Moha
General Systech / Instituto Politécnico Nacional (IPN) – MEXICO

HARVEST
Lam Michelle Wing Yan
City University of Hong Kong – HONG KONG
Navigation app steer-impaired — "SeeMeHere"

Chan Peter / Lam Wah Shing / Leung Chiu Yee / Mok Tsz Ling / Sze Tsz Ho
City University of Hong Kong – HONG KONG
Vasher – Women’s Genital Cleaning Device

WIRA JAZAIR YAHYA / SAIFUL AMRI MAZLAN / HAIRI ZAMZURI / MOHD AZIZI ABDUL RAHMAN / AHMAD MUHSIN ITHNIN
Malaysia-Japan International Institute of Technology, UTM – MALAYSIA
REAL-TIME NON-SURFACTANT EMULSION FUEL SUPPLY SYSTEM (RTES) FOR ROAD TRANSPORT

MATEJ BOSNIJAK
Croatian Inventors Network – CROATIA
CALIBRATION OF ANGLE AND TILT (UMRINKIN)

ARTUR GONSIOR / PIOTR BUJNA / RADOSLAW MATUSZCZYK / TOMASZ MACIEJCZYK / MARCIN PUC / ALICJA LUCZAK
BARTOSZ GLAZ / ARKADIUSZ ROSZAK / MATEUSZ GRUSZCZYK / SZYMON WOJAKOWSKI / KRZYSZTOF OLSZOK / JAKUB ZUR
John III Sobieski Secondary School
EduChemLab – the innovative educational platform in chemistry for high school students

SPECIAL AWARD of JOHN III SOBIESKI SECONDARY SCHOOL
GNANA JOTHY CHIDAMBARAVELU / MOHNISSH SANGGARAN / MUGILAN MUNIANDY
Nishasry Karunagaran / Sri Shyvari Sarawanan / Vijaya Subramaniam
Sjkt Ladang Wellesley – Malaysia
Natural Copper and Brass Cleanser

SPECIAL AWARD of FIRST INSTITUTE OF RESEARCHERS AND INVENTORS IN I.R. IRAN (FIRI)
GNANA JOTHY CHIDAMBARAVELU / MOHNISSH SANGGARAN / MUGILAN MUNIANDY
Nishasry Karunagaran / Sri Shyvari Sarawanan / Vijaya Subramaniam
Sjkt Ladang Wellesley – Malaysia
Natural Copper and Brass Cleanser
### SPECIAL AWARD of CROATIAN INVENTORS NETWORK (HSI)

NESTOR B. SIENES / JAZEL C. PACO / RALPH MANUEL E. ROSILLA / IRON D. FAJARDO / JOSHUA ABARRO  
**COLEGIO DE SAN JUAN DE LETRAN CALAMBA – PHILIPPINES**

**AGUTIC Z.0 Oil Skimming Robot**

Wai Wai CHENG / Ka Chai CHEUNG / Xiao HE / Chun Hei LAI / Ruwen SITU / Tsz Chiu LIU  
**HKFEW Wong Cho Bau Secondary School – HONG KONG**

**Sleepwell Pillow**

Cyrus Nejat  
**Mississippi State University / Worcester Polytechnic Institute – USA**

Multi-function open duct heatthuster for space probe on the moon of Titan and interplanetary missions

Ms. Siriganda Teingtung / Ms. Saowarot Meeneam / Ms. Pacharaporn Kalpakdee / Mr. Sastra Promarak  
**Princess Chulabhorn Science High School Phetchaburi – THAILAND**

Film from Protein Fibroin Blended Chloroplast to Absorb Carbon Dioxide and Produce Oxygen

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### SPECIAL AWARD of INDIAN INVENTION AND INNOVATION PROMOTION ASSOCIATION (INNOPA)

PATRYK ZIELONKA / DANIEL WARLOCH / JAN HADALSKI / KRZYSZTOF SMYCZEK / ARTUR HAUSMAN  
**The John III Sobieski Secondary School – POLAND**

**CBS – CARE BLINDING SYSTEM**

Hao Huang Tain / Sokkong Ang / Marisa Rithya  
**Normandale Community College – USA**

Marketech Business Vending Machine

Ms. CHIANG Ngai Ling  
**Smart Mobility Company Limited – HONG KONG**

Intelligent rescue boat with safety jet engine electric boat

Summy, PUN Chi Sum  
**HONG KONG**

Smart Roller

Aaliyah Yu / Maddox Yu  
**Evergreen Valley High School / Chaboya Middle School – USA**

Concussion Sensor with Cloud-Based Prediction Model Update

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### SPECIAL AWARD of WORLD INVENTION INTELLECTUAL PROPERTY ASSOCIATIONS (WIIPA)

RANA University  
**AFGHANISTAN**

Fluid purification continuous

Barbara Gaździk / Beata Altkorn / Stefan Ptak / Kamil Pomykala / Michał Pajda  
**OIL AND GAS INSTITUTE – National Research Institute – POLAND**

Corrosion inhibitor for hydrocarbon streams

Behshid Behkamal  
**NU INNOVATIONS INC., CANADA**

Context-based method for visualizing business process on the map

Nguyễn Quang Dũng / Trần Thị Minh Huyền / Vũ Huy Thạnh  
**Yen Hoa High School / Dao Duy Tu High School / THE OLYMPIA SCHOOLS**

Smart Tree

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### SPECIAL AWARD of ASSOCIATION OF THAI INNOVATION & INVENTION PROMOTION (ATIP)

CHEUNG, Yiu Chung / LAI, Ho Chi Joseph  
**City University of Hong Kong – HONG KONG**

ISFS Glasses (Intelligent Glasses for Parkinson’s Disease Patients with Safety Feedback System)

Jinghong Low / Soonhin Hew  
**Multimedia University - MALAYSIA**

Memorise Chinese Characters Better with Graphical Association Strategy

Phùng Văn Ngọc / Trường Văn Tiến / Nguyễn Khắc Hùng  
**Institute for Water Development and Partnership – VIETNAM**

Ship hydraulic gate

Yau-yuen YEUNG  
**The Education University of Hong Kong – HONG KONG**

An innovative method for easy and rapid development of online experiments to facilitate effective STEM education

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### SPECIAL AWARD of MALAYSIAN RESEARCH AND INNOVATION SOCIETY (MyRIS)

LEUNG Chiu Yee / LAM Wah Shing / CHAN Peter / SZE Tsz Ho / MOK Tsz Ling  
**City University of Hong Kong – HONG KONG**

Twind Turbine

Behrouz Rahimi  
**NU INNOVATIONS INC. – CANADA**

Medical device monitoring system

Hoàng Trọng Sơn / Vũ Việt Anh / Nguyễn Thị Thu Trang  
**HXX Joint Stock Company – VIETNAM**

Waste treatment equipment
**SPECIAL AWARD of ROMANIAN INVENTORS FORUM (FIR)**

Mohammadamin Mirkohi – IRAN
Vehicle tire and rim with the ability of adapting the size and dimensions of the tire tread to increase adhesion to the surface

Jonathan P. Olds / Winston K.G. Seah / Ramesh Rayudu
Victoria University of Wellington – NEW ZEALAND
AccuMM – Accurate to the MilliMetre

Edward Huang / Austin Huang / Teddy Huang / Vivian Lin / Yen-Jen Wang / Hsiang-Wei Lin
Portola High School / Portola Springs Elementary School – USA
TripBrush

Behrouz Rahimi
NU INNOVATIONS INC. – CANADA
Knee prosthesis with cooling system by name of comfort walk

Ms. CHIANG Ngai Ling
EMINENT BIO ENERGY & ENVIRONMENT LIMITED – HONG KONG
High power water wave power generation for installation on vessel and shore side

LAM Wah Shing / LEUNG Chiu Yee / SZE Tsz Ho / MOK Tsz Ling / Peter Chan
City University of Hong Kong – HONG KONG
Transformable Wheelchair

Cyrus Nejat
Mississippi State University / Worcester Polytechnic Institute – USA
Nejat Aerospace Magnoplane

SAIFUL AMRI MAZLAN / WIRA JAZAIR YAHYA / MOHD AZIZI ABDUL RAHMAN / MOHD HATTA MOHAMMED ARIFF / AHMAD MUHSIN ITHNIN
Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia (UTM) – MALAYSIA
MAGNETORHEOLOGICAL DAMPER

LEUNG Chi Hin
The Education University of Hong Kong – HONG KONG
Innovative Grid Score for Electronic Orchestra (e-Orch)

**GENERAL STATISTICS**

<table>
<thead>
<tr>
<th>Category</th>
<th>2018</th>
<th>(+/-) 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Applications Received (non-filtered; January – July)</td>
<td>502</td>
<td>(+87)</td>
</tr>
<tr>
<td>Total Number of Preliminaries Contestants (disqualifiers filtered out)</td>
<td>410</td>
<td>(+33)</td>
</tr>
<tr>
<td>Total Number of Finalists Selected (confirmed/fulfilled Contestants)</td>
<td>345</td>
<td>(+95)</td>
</tr>
<tr>
<td>Total Number of Participating Countries (overall registration)</td>
<td>44</td>
<td>(+9)</td>
</tr>
<tr>
<td>Total Number of Participating Countries (attended exhibition)</td>
<td>19</td>
<td>(+3)</td>
</tr>
<tr>
<td>Total Number of Inventions Exhibited (at the Finals)</td>
<td>149</td>
<td>(+28)</td>
</tr>
</tbody>
</table>

**PARTICIPATION % BY COUNTRY (TOP 10)**

- Malaysia (16.2%) [16%]
- Egypt (8.1%) [8%]
- Iran (6.4%) [6%]
- Taiwan (6.1%) [6%]
- Hong Kong (5.5%) [5%]
- Iraq (5.2%) [5%]
- China (4.6%) [6%]
- Romania (4.1%) [5%]
- Thailand (3.8%) [4%]
- Poland (3.2%) [2%]
- Rest of the World (36.8%) [37%]

**iCAN 2018 FULL PHOTO GALLERY:** [www.tisias.org/photos1]
**iCAN 2018 E-CATALOGUE IN PDF FILE:** [www.tisias.org/catalogue2]
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iCAN 2018 “The 3rd Edition” – September 1, 2018