

iCAN 2020 “THE FINALS” AWARD WINNERS

International Invention Innovation Competition in Canada, iCAN 2020 “The 5th Anniversary” Edition

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INTERNATIONAL SPECIAL AWARDS

Special Awards Presented by World Invention Intellectual Property Associations (WIIPA)

No.	Country	Organization	Inventor(s)	Title of Invention
1	Malaysia	Multimedia University (MMU)	Lew Kai Liang Ir. Prof. Dr. Sim Kok Swee Associate Professor Tan Shing Chiang Lim Choon Chen	VIRTUAL REALITY UPPER LIMB REHABILITATION
2	Malaysia	SJKT KANGKAR PULAI	GOMATHY A/P SANKARAN	CRUNCHY CENTELLA ASIATICA "MCCC"
3	Malaysia	N/A	TECK CHOY, CHONG	ECO-CUP
4	Sri Lanka	Ku/Holy Family Balika Vidyalaya	Thambawita Maddumage Mewanya Minduli Thambawita	Mosquito repellent, antiseptic, healthy and natural air-freshener mainly with Ceylon Cinnamon oil or waste water in manufacturing cinnamon oil(prohibited to dump in environment by law), water, emulsifier, alcohol and menthol
5	Malaysia	KOLEJ VOKASIONAL (PERTANIAN) TELUK INTAN	ZULAIKHA BINTI MOHAMAD NORDIN NORMAHIRAH BINTI AMIR HASSAN MUHAMMAD KASHFUL AZIM BIN KHALID MUHAMMAD HAIRUL SHAH BIN MOHD SHOHOR NUR WADIHAH BINTI ABDUL RAHIM	ORGANIC PLANTING MATS TO PREVENT SOIL EROSION
6	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Oleksandr Luchyn	Development of voice to text transcriber - Telegram bot
7	Malaysia	PVA COSMIC TELESCOPY SOLUTION	ANNAMALAI MUTHUPALANIYAPPAN ARAV ANNAMALAI	SMARTPHONE PHOTOGRAPHY UV INFRARED TELESCOPY SOLUTION - SPACE & LUNAR OBSERVATION OUTREACH FOR CHILDREN
8	Malaysia	UNIVERSITI TEKNOLOGI MALAYSIA (UTM)	ASSOC. PROF. Ts. Ir. Dr. SYUHaida ISMAIL Ir. Ts. DAVENDREN VEREYA	HIGH PERFORMING TEAM INTEGRATION FRAMEWORK FOR MALAYSIAN OIL AND GAS CONSTRUCTION PROJECT
9	Malaysia	UNIVERSITI PENDIDIKAN SULTAN IDRIS (UPSI)	DR MOHD YUSOF BAHARUDDIN DR SITI NOOR AZZA AMINUDIN PROF DR AHMAD HAFIZ ZULKIFLY PROF DR SHEIKH HUSSAIN SHAIKH SALLEH PROF DR MUHAMMAD HISYAM LEE	MYHIP - ASEAN LOW COST HIP IMPLANT
10	Romania	University POLITEHNICA of Bucharest	Petre Lucian SEICIU Valentin BARBU	Vibrating Reclining System for Medical Rehabilitation

INTERNATIONAL SPECIAL AWARDS

Special Awards Presented by Indonesian Invention and Innovation Promotion Association (INNOPA)

No.	Country	Organization	Inventor(s)	Title of Invention
1	Egypt	Sues Canal Organization	Dr. Zaky AbdEllatif Zaky AbdEllatif	An invention of an auxiliary tool for ambulance trolley, capable to absorb shocks and protecting accident victims
2	Hong Kong	CMA Choi Cheung Kok Secondary School	B K Ritika	Foldable SpeakCUP
3	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Matiushenko Ivan	Creation of a hybrid multilayer energy- generating heat-insulating coating for the residential and working building
4	Egypt	E.B.S	Alaa Mohammed Hammouda	COVID19 SmartShield
5	Egypt	Alexandria Water Company Alexandria University	Dr. Chemist. Maisa Salah El-Din ismail Ahmed Prof. Dr. Mohamed Essam El-Din El-Rafey Prof. Dr. Essam Khamis Ibrahim Prof. Dr. Ashraf Moustafa Abdel-Gaber Dr. Ahmed Mohamed Ahmed Hefnawy	Environmental Method for the Control of Corrosion and Deposition of Scale in Water systems

INTERNATIONAL SPECIAL AWARDS

Special Awards Presented by Manila Young Inventors Association (MYIA)

No.	Country	Organization	Inventor(s)	Title of Invention
1	Malaysia	UNIVERSITI PUTRA MALAYSIA (UPM)	Prof. Ir. Ts. Dr. Mohamed Thariq bin Haji Hameed Sultan Prof. Dr. Yusri bin Yusof Muhammad Imran Najeeb Dr. Ahmad Hamdan bin Ariffin Dr. Adi Azriff Bin Basri	Innovative Pineapple Leaves Fiber Extraction Blade for Fiber Extraction Machine
2	Malaysia	Sultan Mudzaffar Shah Primary School	Wani Irdina Binti Muhammad Razak Putri Amisya Binti Mad Saad Muhammad Nurrojlul Mulha Al Fateh Bin Mohd Nurrahmat Muhammad Azib Fariduddin Bin Muhammad Khairi Muhammad Aniq Syafiq Bin Mohamad Sazali	POWER OF THE HAND
3	Malaysia	SMK BANDARAYA KOTA KINABALU	HANITA BINTI LADJAHARUN OSMAN BIN MUAMAT SUKRIAH BINTI LAMAI RAGINA SIKUA JESCY JOHN	LENG-AT 2.0

CANADIAN SPECIAL AWARDS

Special Awards Presented by Toronto International Society of Innovation & Advanced Skills (TISIAs)

No.	Country	Organization	Inventor(s)	Title of Invention
1	Sri Lanka	Musaeus College	Helani Dulanya Balasuriya	Automatic Garbage Segregation Bin
2	Malaysia	Multimedia University (MMU)	Lim Choon Chen Ir. Prof. Dr. Sim Kok Swee Associate Professor Tan Shing Chiang Lew Kai Liang	VIRTUAL STROKE REHABILITATION EXERCISE INTEGRATING WITH PATIENT PERFORMANCE ANALYSIS SYSTEM
3	Hong Kong	The University of Hong Kong	LEUNG, Yiu Cheong WANG, Yifei KWOK, Yu Ho PAN, Wending	Paper-based aluminum-air battery: a low-cost & green battery technology
4	Malaysia	UNIVERSITI TEKNOLOGI MARA (UiTM)	PROFESSOR DR. FOUAD HUSSAIN AL BAYATY ASSOCIATE PROF. DR. MAS SURYALIS AHMAD DR. MUSAB ALI HAMIZAH BT MOHAMAD TARIDI NURFAR'AIN BT NORPITRI	FABRICATION AND EVALUATION OF ELECTRONIC TOOTHBRUSH FOR WHEELCHAIR DISABLE PATIENT
5	Sweden	N/A	Sajad Shabanpourhaghighi	ENERGY PRODUCTION DEVICE WITH CAPILLARY CHARACTERISTIC AND GRAVITY FORCE
6	Sri Lanka	Ku/Holy Family Balika Vidyalaya	Thambawita Maddumage Mewanya Minduli Thambawita	Mosquito repellent, antiseptic, healthy and natural air-freshener mainly with Ceylon Cinnamon oil or waste water in manufacturing cinnamon oil (prohibited to dump in environment by law), water, emulsifier, alcohol and menthol
7	Malaysia	Universiti Putra Malaysia (UPM)	Prof. Dr. Hamidah Ibrahim Mr. Kwok Siang Kwee Dr. Ali Amer Alwan Dr. Nurul Husna Mohd Saad Dr. Teo Poh Kuang	Smart Travel Package Recommendation System with Preference Evaluation Techniques (<i>EasyTravel</i>)
8	Slovenia	N/A	Srečko Pisnik	Innovative Plate Easebelt Dynamic MM
9	Malaysia	Multimedia University (MMU)	Prof. Dr. Ir. Sim Kok Swee Assoc. Prof. Ts. Dr. Tan Shing Chiang Mr. Toa Chean Khim Mr. Lim Zheng You	ANALYSIS OF BRAIN EDUCATION USING AUGMENTED REALITY AND ELECTROENCEPHALOGRAPHY
10	Malaysia	KOLEJ VOKASIONAL (PERTANIAN) TELUK INTAN	ZULAIKHA BINTI MOHAMAD NORDIN NORMAHIRAH BINTI AMIR HASSAN MUHAMMAD KASHFUL AZIM BIN KHALID MUHAMMAD HAIRUL SHAH BIN MOHD SHOHOR NUR WADIHAH BINTI ABDUL RAHIM	ORGANIC PLANTING MATS TO PREVENT SOIL EROSION
11	Philippines	Manila Science High School	Firstene Arvhie A. Badua Rovie P. Labastida (coach)	Affordable and Effective Texting Fire Detector (AETFD) 2.0

12	Macedonia	Yahya Kemal College Karposh	Meryem Alkin Engin Alkin Ahmet Tarik Dinc	Fresh plant of lavender, fresh flower of lavender and dried lavender "Lavender-wonder plant that removes heavy metals from water" Continuation project
13	Malaysia	Multimedia University (MMU)	Ir. Prof. Dr. Sim Kok Swee Fawaz Sammani Mahmoud Elsayed	CLASSIFICATION OF STROKE PATIENTS EEG SIGNALS
14	Sri Lanka	N/A	MOHAMED DAROOK MOHAMED ZACKI LATHEEF	PASTE TO TREAT FOR SKIN DISEASES
15	Hong Kong	CMA Choi Cheung Kok Secondary School	B K Ritika	Foldable SpeakCUP
16	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Khrystyna Ambroziak	Prefabricated buildings based on transforming-frame technology
17	Malaysia	Universiti Teknologi Malaysia SHE Empire Sdn. Bhd.	Associate Professor Dr. Siti Hamidah Mohd. Setapar Dr. Hasmida Mohd Nasir Ms. Zarith Asyikin Abdul Aziz Ms. Wong Lee Peng	Roselle Extracts as Emerging Sustainable Materials for Wellness Industries
18	Sri Lanka	Sri Lanka Inventors Commission (SLIC)	KUREMPALA RALALAGE CHATHURA MADHUMAL	WALKING CHARGER
19	Cambodia	Norton University	Dr. So Sokuntheary Mr. Chuop Sopheap Mr. Sao Manut Mr. Kong Kimchhun Mr. Chhorn Romdoulcheayden	NU Website development to show the history of Sambor Prei Kuk temple
20	Cambodia	Norton University	Dr. So Sokuntheary Mr. Chuop Sopheap Ms. Prem Vichika Ms. Oem Davin Thoeun Watanak	NU the creation an App shows a lively sculpture of Sambor Prei Kuk
21	Morocco	N/A	Mohamed Yalouh	The Hexagon Rotor Rotary Engine
22	Malaysia	PUBLIC WORKS DEPARTMENT OF MALAYSIA	Ir. ATIKAH BT ABDUL HAMID Ir. HASRUL NIZAM BIN ABDUL RAHMAN NOOR EZLYN BT OTHMAN AMIR ASROL BIN AHMAD BANGI MOHAMED FIRDAUS BIN OTHMAN	F-FLEX: FLEXIBLE JOINT FOR RAINWATER DOWN PIPE
23	Malaysia	UNIVERSITI TEKNOLOGI MALAYSIA (UTM)	NORHIDAYAH ABDUL HASSAN ZAKARIYA YAHYA MAHSSIN MUZAKKIR MOHAMMAD ZAINOL NOR AISHAH SAIDINA AMIN MOHD ZUL HANIF MAHMUD	Asphalt FWB
24	Sri Lanka	N/A	HEMASHRI BANDARA WAAS THILAKARATHNA	Vision Handy capped Read Currency

25	USA	LA New Product Development Team	Onega Ulanova Konstantin Dolgan	UP Dock
26	Malaysia	UNIVERSITI KEBANGSAAN MALAYSIA (UKM)	MOHD EFFENDI @ EWAN MOHD MATORE AHMAD ZAMRI KHAIRANI NORDIN ABD RAZAK EFFA RINA MOHD MATORE	IKBAR ADVERSITY QUOTIENT (AQ) SCALE - SHORT FORM (IKBAR-SF)
27	Malaysia	N/A	SIVASHANKERY A/P BALAN SHIVA ROOBINI A/P BALAN	SMART MEDICAL WARD
28	Vietnam	Chu Van An Junior High School, Vietnam Montverde Academy, USA	Tran Nguyen Khanh An Đỗ Trọng Minh Đức	VIHELM- Power air purifying respirators
29	Thailand	Healthiness Co., Ltd. (AVS Innovation)	Surachet Soontornraweesub Phiyada Khayak Panudet Pramunsin Srung Smanmoo Thatchaphon Chonwattanasakul	BESUTO-12, Non-alcohol hand sanitizer gel with thin film forming technology
30	Sri Lanka	University of Ruhuna	Abdul Azees Ajmal	Non-Invasive Screening Tool to Detect Anemia
31	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Oleh Gennadievich Bielous Vladislav Valeriovich Kramarenko	AI Fresh Station
32	Thailand	Wellness life Co., Ltd (AVS Innovation)	Patcharapak Suriwong Khemmaphat Hooncharoen Nathanan Thongdeewong Srung Smanmoo	KAO VEE PLUS, Probiotic Fermented Houttuynia cordata for Diabetes
33	Thailand	AVS Innovation Co., Ltd.	Phiyada Kayak Varinthon Chairojrat Duangsiri Laikijrungs Sahawish Rojviroon Srung Smanmoo	PHUM PHLAI SPRAY (Muscle Pain Relief Spray From Phlai Microcapsules)
34	Thailand	Chiang Mai University	Asist. Prof. Dr. Ruttiros Khonkarn	Improving efficacy of Thai herbal extracts by nanotechnology for pain treatment
35	Egypt	Sues Canal Organization	Dr. Zaky AbdEllatif Zaky AbdEllatif	An invention of an auxiliary tool for ambulance trolley, capable to absorb shocks and protecting accident victims
36	Malaysia	SJKT KANGKAR PULAI	GOMATHY A/P SANKARAN	4N-FREE HAIR SOLUTIONS PRODUCTS (4N-FREE hair oil, 4N-FREE hair mask, 4N-FREE hair serum and FREE hair soap)
37	Egypt	E.B.S	Alaa Mohammed Hammouda	COVID19 SmartShield
38	Vietnam	DAO DUY TU HIGH SCHOOL	LE THANH BINH NGUYEN NGOC TRANG NGUYEN THI THUY LINH	Development of a cement mortar containing silicon dioxide to plaster a walls help against the heat of the sun in the summer

39	Hong Kong	The University of Hong Kong	Junwei Zhang Yan Tung Lo Yunlun Wu Hao Guo Chuyang Tang	Nano-functionalized porous membrane filter for reusable face masks
40	Hong Kong	The Education University of Hong Kong	Dr Song Yanjie Mr Cao Jiabin	m-Orchestrate: A Mobile App for Teacher Orchestration in Collaborative Science Inquiry
41	Korea	Korean Minjok Leadership Academy (KMLA)	SEUNG HYO LEE SEUNGHYEUK LEE	3D-HisSite: 3D Reconstruction of Historic Sites Damaged by Drastic Climate Change via Image Inputs Utilizing Deep Learning
42	Malaysia	SEKOLAH MENENGAH KEBANGSAAN SULTAN BADLISHAH POLITEKNIK TUANKU SULTANAH BAHYAH	SYAZWAN ISKANDAR BIN SAARI NOOR LIZA BINTI RAMLI SAARI BIN YAZIT	MY FILTRO AGUA
43	Sri Lanka	UNIVERSITY OF KELANIYA	ASHANI SHALIKA RANASINGHE	BRAILLE, AUDITORY AND KINETIC READING TOOL FOR CHILDREN WITH VISUAL IMPAIRMENTS (BrAK)
44	Malaysia	POLYTECHNIC OF SULTAN SALAHUDDIN ABDUL AZIZ SHAH	MR AZIZI MURSIDY ZAINOL ABIDIN MR MOHD AIMAN MOHD FAUZI MR SYAHID IRFAN YUNUS MISS JAANAVEE DEVI SUNDARESAN MISS FATIN NAJIHAH ZAINAL ABIDIN	SAVE ABLUTION H2O VISUAL BOOSTER
45	Thailand	Maejo University Chiangmai University	Assoc. Prof. Dr. Thitiphan Chimsook Mr. Poompob Pitakkwanskul Asst. Prof. Dr. Narissara Lailerd	ANDRO : Super Boost for Immune System and Alternative Treatment for Diabetes Mellitus
46	Malaysia	N/A	TECK CHOY, CHONG	ECO-CUP
47	Malaysia	SKJT TAMAN MELAWATI	Kavisha A/P Nagarajan Kailesh A/L Saravanan Yuvika A/P Mahaganapathy	MySoil MyPlant
48	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Oleksandr Luchyn	Development of voice to text transcriber - Telegram bot
49	Germany	N/A	Hamed Moradi	A Novel Microstrip Model of Triplexer-Power Divider Signal With the Purpose of Transmitting High Power Signal & High Frequency Bandwidth in Devices Transportation Satellite Radars and 5G Protocol Telecommunication Radars
50	Croatia	University of Zagreb	Galla Uroić, mag.ing.min. Želimir Veinović, Ph.D., Professor	Improvement of the numerical analysis model of thermo-hydro-mechanical effects in host rock for spent nuclear fuel repository
51	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Maksym Lan Andrii Velikhovskiy	ProWir
52	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Alisa Sergieieva	K-line

53	Malaysia	Universiti Putra Malaysia (UPM)	Prof. Dr. Mohd Zobir Hussein Farhatun Najat Maluin Dr. Idris Abu Seman Prof. Dr. Sharida Fakurazi	NANODERMA: A Potent Antifungal Nanodelivery System for Ganoderma Disease Treatment for Oil Palm
54	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Mykhailo Shtopko	Biosynthesis of nanomaterials and their applications in medicine
55	USA	Brainventions Corporation, Inc.	Valeriy Nenov, PhD.	MusiShuZ Feet operated MIDI controller (Virtual Musical Instrument)
56	Macedonia	Yahya Kemal College - Skopje	Matej Milosievski	THE ENVIRONMENTAL EFFECTS OF WRITING: FINDING AN ECO-FRIENDLY ECONOMICAL AND SAFE WAY OF WRITING
57	Malaysia	PVA COSMIC TELESCOPY SOLUTION	ANNAMALAI MUTHUPALANIYAPPAN ARAV ANNAMALAI	SMARTPHONE PHOTOGRAPHY UV INFRARED TELESCOPY SOLUTION - SPACE & LUNAR OBSERVATION OUTREACH FOR CHILDREN
58	Malaysia	SJK THAI KWANG SIBU	NICHOLAS TOO KAH HEE SUMMER TING IN HUI LAETITIA LAW EU QI SIAO CHIN TZE CHIENG LEY FONG	PYROPROSTASIA
59	Malaysia	Universiti Putra Malaysia (UPM)	Prof. Dr. Vijayaletchumy Subramaniam Kavenia Kunasegran	A Basic Guide & Dyslexia Symptoms Intervention
60	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Dmytro Steblyna Vitalii Kriuk	The Hypercoil: high-efficiency wireless electricity transmission technology
61	Hong Kong	N/A	PUN Chi Sum Summy	Bottle Decomposer / To Revolutionise Recycling
62	Malaysia	UNIVERSITI TEKNOLOGI MALAYSIA (UTM)	ASSOC. PROF. Ts. Ir. Dr. SYUHaida ISMAIL Ir. Ts. DAVENDREN VEREYA	HIGH PERFORMING TEAM INTEGRATION FRAMEWORK FOR MALAYSIAN OIL AND GAS CONSTRUCTION PROJECT
63	Malaysia	MAKTAB RENDAH SAINS MARA JELI	AZMY BIN AWANG ANIQ NOR RAHIMI BIN ABU SEMAN MUHAMMAD HAFIZ HAIKAL BIN ZAHAR	GREENTECH BIOCOMPOSITE PLASTIC MADE FROM BANANA PEDUNCLE, <i>Cucurbita</i> spp. & <i>Benincasa hispida</i>
64	Malaysia	Universiti Kebangsaan Malaysia (UKM)	FAIZ DAUD	VETERINARY MANAGEMENT SYSTEM (V-MAGSYS)
65	Hong Kong	Diocesan Girls' School imMaker Education Limited	Choi Ching Lam	Corona-Net: Fighting COVID-19 With Computer Vision
66	Macedonia	Yahya Kemal College Karposh	Umit Uzunboy Omar Kolashinac	Cleaning Air With House-Plants
67	Bahrain	N/A	Ali Abdulla Ismaeel Ali Jameel Jenan Almarzooq	SWIMMING POOL RESCUE SYSTEM

68	Egypt	Alexandria Water Company Alexandria University	Dr. Chemist. Maisa Salah El-Din ismail Ahmed Prof. Dr. Mohamed Essam El-Din El-Rafey Prof. Dr. Essam Khamis Ibrahim Prof. Dr. Ashraf Moustafa Abdel-Gaber Dr. Ahmed Mohamed Ahmed Hefnawy	Environmental Method for the Control of Corrosion and Deposition of Scale in Water systems
69	Mexico	UAEM and IPN	Thania Monserrat Montoya Olmedo Leonardo Tonatiuh González García Emmanuel Campos Genaro Fabiola Rodríguez García David Campos Genaro	AXOLCARE (Automated system for preservation and conservation of species)
70	Thailand	Princess Chulabhorn Science High School Phitsanulok	Ms. Niratchaporn Jongchansittho Ms. Wirinya Kongsri Mrs. Natpassorn Laonet	Biodegradable Banana Container
71	Thailand	Princess Chulabhorn Science High School Phitsanulok	Miss Nichakamon Vongsopa Miss Suphawadee Amjai Mrs. Natpassorn Laonet	Beads Mixed with Fang Herbal Extract for Medical Application
72	Macedonia	YAHYA KEMAL COLLEGE – SKOPJE	Betul GUL ERDIL Chedo TRPESKI Ismail ERDIL	SOLAR POWERED AIR CLEANER STREET LAMP
73	Malaysia	UNIVERSITI PUTRA MALAYSIA (UPM)	Prof. Ir. Ts. Dr. Mohamed Thariq bin Haji Hameed Sultan Dr. Adi Azriff Bin Basri William Robert Alvisse Dr. Syeed SaifulAzry Osman Al Edrus Mohd Edyazuan bin Azni	PUTRA UAV: Novel Bio-Degradable Natural Fiber Composite Material for Unmanned Aerial Vehicle Mainframe
74	Malaysia	SJK THAI KWANG SIBU	RONALD HU KING ONN BRYSON KONG YEW FOO LUCAS NGANG JIM XUEN CHIENG LEY FONG SIAO CHIN TZE	RYG TRAFFIC LIGHTS
75	Thailand	Harrow International School Bangkok	Kawin Leephakpreeda Nicha Muninnimit	Stymus — an invention that lets you draw and write with a mouse
76	Thailand	Debsirin School	Mr. Krissadin Oonmai Mr. Thanabhum Pipadkajonekitt Mr. Noltawat Rattanawan Mr. Tanaboon Jaroonyingyong Mr. Vasupol Jintawong	Nanoparticles Solution Battery in Calamine Mixed ZnO and TiO ₂
77	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Anastasiia Venchkovska	Mathematical modeling of an environmentally-friendly cup
78	Kuwait	Electrodis Est.	Jenan Esam Saleh AIShehab	WIRELESS POWER TRANSMISSION SYSTEM
79	Croatia	DIATUS	KARLA BRSTILO	SUPER CLOTHES PEG

80	Malaysia	UNIVERSITI PUTRA MALAYSIA (UPM)	SHARIFAH NUR MUNIRAH SYED HASAN FARADIELLA MOHD KUSIN VERMA LORETTA M. MOLAHID NOOR ALLESYA ALIS RAMLI IKHWANNUDIN BIN ISKANDAR	DEVELOPMENT OF GREEN BUILDING MATERIAL AS PERMANENT CARBON CAPTURE & STORAGE (CCS) PRODUCT
81	Malaysia	Jungle school Gombak Malaysia	Dr. Norzalifa Zainal Abidin Mr. Kalam Pie	Jungle School Gombak
82	Qatar	Qatar University	Hissa Fahad J A Al-Kuwari Roudha Jumah M D Al-Kuwari DR. Muazzam Ghous Sohail	Ductile Fiber Reinforced Ultra-high Performance Concretes (DFRUHPC)
83	Qatar	Qatar University	Dr. Noora Jabor Al-Thani	Qatar University – Young Scientists Center
84	Malaysia	Universiti Kebangsaan Malaysia (UKM)	Dr. Faiz Daud Muhammad Amruha Md Zan	AIRPORT PIT-OPENER (DAG)
85	Malaysia	UNIVERSITI PUTRA MALAYSIA (UPM)	Prof. Ir. Ts. Dr. Mohamed Thariq bin Haji Hameed Sultan Prof. Dr. Yusri bin Yusof Muhammad Imran Najeeb Dr. Ahmad Hamdan bin Ariffin Dr. Adi Azriff Bin Basri	Innovative Pineapple Leaves Fiber Extraction Blade for Fiber Extraction Machine
86	Malaysia	LABUAN INTERNATIONAL SCHOOL	FADLIN AIMUNI BINTING WARNNIE BINTI MUSAH	GEAR BULAN
87	Hong Kong	The Education University of Hong Kong	LIU Yan, Leyla YEUNG Yau Yuen	Remote-controlled Digital Hydrometer
88	Malaysia	SMK BANDARAYA KOTA KINABALU	HANITA BINTI LADJAHARUN OSMAN BIN MUAMAT SUKRIAH BINTI LAMAI RAGINA SIKUA JESCY JOHN	LENG-AT 2.0
89	Malaysia	LABUAN INTERNATIONAL SCHOOL	S.FATIMAH BINTI MOHAMAD MOHD AZLI FIKRI BIN AHMAD	Space Board: A factor of persistence learning of the Earth and Space
90	Macedonia	Yahya Kemal College	Kiril Ristevski Lara Samardzieva	Zeolite & Lavender – Heavy Metal Hunters In Restoring Soil
91	Malaysia	Universiti Teknologi Malaysia (UTM) Eco Bee Shop Sdn Bhd	Assoc. Prof. Dr. Mohd Azizi Che Yunus Cathie Tan Ah Tee Bruce Cheong Chiew Soong Dr. Lee Nian Yian Zuhaili Idham Nor Faadila Mohd Idrus	Malaysian Kelulut (Stingless Bee) Golden Propolis Extract
92	Malaysia	LABUAN INTERNATIONAL SCHOOL	MS FAIRZAN NAZZILA BINTI MOHD NAZRIE MR RIZUAN ASMARAH MDM WARNNIE MUSAH	TELEMUSIM

93	Malaysia	PETRONAS University of Technology University Kebangsaan Malaysia	Prof. Dr. Norasmah Binti Othman Adam Daniel Bin Effendi Iskandar Danial Bin Adam Adonis Nurulain Binti Rumaizi Nabilla Afzan Binti Haji Abdul Aziz	Final.Ly: B40(Low Class) and M40 (Middle Class) Life Cycle Programme
94	Romania	University POLITEHNICA of Bucharest	Constantin Romica STOICA Petre Lucian SEICIU	2 DOF Device for Satellite Components Orientation
95	Malaysia	UNIVERSITI PENDIDIKAN SULTAN IDRIS (UPSI)	DR MOHD YUSOF BAHARUDDIN DR SITI NOOR AZZA AMINUDIN PROF DR AHMAD HAFIZ ZULKIFLY PROF DR SHEIKH HUSSAIN SHAIKH SALLEH PROF DR MUHAMMAD HISYAM LEE	MYHIP - ASEAN LOW COST HIP IMPLANT
96	USA	N/A	Theresa Marybeth Lay	Edible Holy Communion Gel Capsule
97	Macedonia	YAHYA KEMAL COLLEGE JUNIOR	INDZI AJRADINOSKA KALTRINA BYTUQI	SOLAR WATER CONDENSATION FROM AIR FOR PLANT IRRIGATION SYSTEM
98	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Ivan Zahorulko	Eco-friendly multifunctional device for bathroom
99	Malaysia	JENJAROM TAMIL SCHOOL	THARUNESH A/L CHANDRASAKARAN YUGASURUTHI A/P SURESH GIRTANISHA A/P SIVAKUMAR	Rice Vessels
100	Hong Kong	The Hong Kong Polytechnic University	Yuhong Wang Wang-Hei Ho Wei Sheng Yuhao Wang	A smart integrated road pavement and drainage system for stormwater storage, de-icing, dust suppression, and cooling
101	Romania	iSentinel	Mircea MANOLESCU	iSentinel® Home/Immo/Industry IoT – the earthquake intelligent protection and early warning solutions
102	Canada	N/A	Mohsen Mohammadi Abbas Salimi	Roboknotter a Carpet Weaving Robot for producing Hand-knotted Carpets
103	Malaysia	Sultan Mudzaffar Shah Primary School	Wani Irdina Binti Muhammad Razak Putri Amisya Binti Mad Saad Muhammad Nurrojlul Mulha Al Fateh Bin Mohd Nurrahmat Muhammad Azib Fariduddin Bin Muhammad Khairi Muhammad Aniq Syafiq Bin Mohamad Sazali	POWER OF THE HAND
104	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Matiushenko Ivan	Creation of a hybrid multilayer energy- generating heat-insulating coating for the residential and working building
105	Malaysia	Universiti Sains Malaysia (USM)	Mohd Hafizal Mohd Isa Zeyad Amin Al-Absi Muhamad Azhar Ghazali Xia Qing	PCM-FC cladding

106	Romania	University POLITEHNICA of Bucharest	Anton FICAI Denisa FICAI Ludmila MOTELICA Ovidiu-Cristian OPREA Ecaterina ANDRONESCU	COMPOSITIONS AND METHOD FOR TREATING MATERIALS FOR THE DEVELOPMENT OF (MEDICAL) PROTECTIVE DEVICES WITH ANTIVIRAL AND ANTIMICROBIAL ROLE
107	Macau	Rongshan Middle School	Liang Junbiao Wang Yijie Zhu Qibin	The Design of Spiral Elevator with Worm Gearing
108	Malaysia	Universiti Teknologi MARA (UiTM) Sekolah Menengah Kebangsaan Seri Hartamas	Assoc. Prof. Dr. Jamal Hussaini Assoc. Prof. Dr. Fadzilah Mohd Nor Prof. Dr. Ariza Adnan Dr. Navindra Kumari Palanisamy Ms. Haniyeh Houssaini	Interactive Microbiology Kit
109	Canada	Valt.X	Dennis Meharchand	Valt.X Cyber Resilience Solutions
110	Poland	Kazimierz Wielki University	Zbigniew Szczepański Marek Macko Dariusz Mikołajewski Joanna Nowak	DEVELOPMENT OF TECHNOLOGY FOR CREATING POLYURETHANE BREAST PROSTHESIS BASED ON 3D SCANNING AND 3D PRINTING
111	Thailand	Chulalongkorn University Demonstration Elementary School	RONNAPAT SRIVORAVILAI DHARMATOUCH POURPONGPUN BOONYAKORN S. LEWSUWAN	Anti-Pandemic Pen
112	Poland	Warsaw University of Life Sciences Polish Academy of Sciences	Paula Kielbik Jarosław Olszewski Michał M. Godlewski Jarosław Kaszewski Bartłomiej S. Witkowski Marek Godlewski	New generation of biocompatible markers for detection and treatment of tumours
113	Malaysia	Universiti Sains Malaysia (USM)	Dr. Nurhafizah Binti Md Disa Assoc. Prof. Dr. Nurhayati Binti Abdullah	Rapid Synthesized Graphene Oxide from Coconut Frond Wastes as Potential Supercapacitor's Electrodes
114	China	TCI Co., Ltd.	TCI Co., Ltd.	double 2 NUTRI®
115	China	TCI GENE INC.	TCI GENE INC.	QVS-96, the fully automated detection integration system
116	Thailand	Chulalongkorn University Demonstration Elementary School	Charita Kumworachai Pawarisa Lerdloomphephan	2-in-1 Eraser Dust Cleaner
117	Poland	Wrocław University of Science and Technology	dr Michał Majcherek (PhD) dr inż. Sylwester Borowski (PhD Eng.)	HOME GRINDER FOR PLASTIC WASTE, SPECIFICALLY INTENDED FOR PET BOTTLES, POWERED BY A RENEWABLE ENERGY SOURCE
118	Thailand	Chulalongkorn University Demonstration secondary school	Korn Hemrungron Theerapas Apinankul Suteepan Khovidhunkit	@Train (Trans Brain computer Interface Neurofeedback training)

119	Iran	N/A	Hamed Vaghef	Potential energy synthetic stone
120	Iran	N/A	Seyedaliaghni Tabatabaeiseyfi	Reducing power consumption in an elevator
121	Macau	PUI CHING MIDDLE SCHOOL MACAU	LAO HIO PUI AUDREA	Magic Beauty Wardrobe / The 24-7 Wardrobe
122	Macau	PUI CHING MIDDLE SCHOOL MACAU	XIANG ZI FAN CATHY	Keep You Warm
123	Hong Kong	LEDUS Lighting Company Ltd.	Yiu Kwok Wah Mexci	PC-Lite Photocatalytic Multifunctional Sterilization Device
124	Nigeria	AIKON GLOBAL LTD	EMEKA NELSON UGWUEZE	AKPAIKE
125	Iran	N/A	Vahid Khouri Arash Tahmasebifar Maziar Ghandian Zanjan Seyed Mostafa Rahmatbakhsh Anahid Khori Arad Tahmasebifar Rezvan Movahedirad Seyede Helia Rahmatbakhsh Mehdi Khouri Sima Sadighi Mohammadmehdi Motahari	A New Method, Device, Software and Application for Converting Fresh Fruits and Plants Residue to Cosmetic and Medical Semi-solid Products
126	Macau	The Workers' Children High School of Macao	Ka-Wai HUANG Chi-Kit WONG Si-Teng WU Jia-Ning WENG Ting CHEN	Inter-turn short-circuits fault detector for motor rotor winding
127	Macau	The Workers' Children High School of Macao, Macao, China	Kuok Chon Man Chao Man Sam Wong Un Man Chen Jia Hao Lin Pei Wen	Visible Deep-water salvage platform
128	Iran	N/A	Amirhossein Rabet Ghannadi Hamid Reza Azizipesteh baglo	New rail seismic isolation system for non-structural components
129	Iran	N/A	Keivan Kohzadi	The intelligent self-control rotary steerable system
130	Thailand	Chulalongkorn University Demonstration Secondary School	Tanyapat Triwitayakorn Alisa Triwitayakorn	Automatic Envi-Save Sink

131	Thailand	Chulalongkorn University Demonstration Elementary School	Thipok Tungsiripat Chiratchaya Hemrungronj Nara Sthapitanonda Siranat Tovikkai Nattam Osornprasop	Boost Brain Up ²
132	Iran	FANAP Co.	Mohammad Amini	PAYAB "Smart System of Online Detection, Alarming, and Locating of the Water Leakage in Plumbing System, and Managing of Water Usage"
133	Iran	N/A	Neda Sajedi	Smart helix parking
134	Iran	N/A	Morteza Bahrapour Mojtaba Zarabi	Multifunctional Human Cooling Device Used in Traumatic Organs and Chemotherapy
135	Iran	N/A	Hassan Abedi Rahmanlou Mahmood Esmaeili Omidvar Mohsen Tavakoli Shahram Ajorlou	Wind Turbine with a Combination of Several Turbines in the Handles
136	Iran	N/A	Mr. Vahid Niroumand Mr. Hamzeh Abbaszadeh	Multifunction meter with the simultaneous connection of several branches to power, water and gas system
137	Thailand	TRIAM UDOM SUKSA SCHOOL	PALIDA RONGKAPICH RAPEEPUTCH RATTANATAYMEE PROM SERMSAKSASITHORN KITAPAS PORNCHAROENCHOT	BRAINY BLINDS
138	Philippines	SURIGAO DEL NORTE NHS / FIS-LUMAD CHAPTER	RONIE MORATO ER-ER	INDIGENOUS AEROTHERMAL INHALATOR
139	Thailand	King Mongkut's University of Technology Thonburi / Chulalongkorn University Demonstration Secondary School	Naruporn Samuntathanakul Jisue Youn Kumwilaisak Rachapon Thammacharo Thanyanan Poonbundansin Papichaya Kummetha	CAL-KUNG-HUB: The AI-based Food Recognition Bot for Estimating Calories Intake
140	Thailand	Chulalongkorn University Demonstration Elementary School	Poramit Sangmanee Nyanole Dardarananda Woratat Kosolpisitkul Primluck Bovornvanich Pluemkamon Thongkham Pavarit Tantrarattana Tos Bovornvanich Bhira Piromsopa	Crushed Bottle Bank
141	Macau	Macau Pooi To Middle School	LEONG WANG CHI	Classroom disinfection and health guard
142	Thailand	Chulalongkorn University Demonstration Elementary School	BOONYADA SANGMANEE PORAMIT SANGMANEE WYNN BOONYANUSASNA CELINE BOONYANUSASNA	EFFERVESCENT DISPENSER

143	Thailand	Chulalongkorn University Demonstration Elementary School	BOONYADA SANGMANEE PATTANAN LEELAWATTANAPANIT	ECO BAND
144	Thailand	Chulalongkorn University Demonstration Secondary School	Lapasrada Paseephol Nichanun Subsompon Nathaporn Piboonratanakit	Eco Nut
145	Thailand	Chulalongkorn University Demonstration Elementary School	Waranyu Kittithawornkul	EASY GET
146	Thailand	Chulalongkorn University Demonstration Secondary School	Rattchapol Singtoroj Tanyapat Triwitayakorn Varissanan Jaiweerawattana	CU WASH (SEE YOU WASH)
147	Thailand	Chulalongkorn University Demonstration Secondary School	Nichamon Supatgiat Irinraya Sotangkur Supawitch Wannadelok Supacheep Sahakitrungruang	Happy CP Gloves
148	Macau	The Affiliated School of the University Macau	Chan Peng Him Lam Weng Him Hong Weng Fong Chan Wai Chon LIN YANLONG (tutor)	Robot for extreme environment exploration based on Arduino
149	Macau	The Affiliated School of the University Macau	Lam Hou Hei Leong Chi Wang Chong Ka Sin Vu Weng Ian Leng Ka Hei LIN YANLONG (tutor)	The Design of a Flood Search and Rescue Vehicle
150	Thailand	Chulalongkorn University Demonstration Elementary School	Pranak Baikloy Bharawee Nhongharnpitak Bhuricha Nhongharnpitak Kaweewat Santivorapong Yanawatana Krisdathanont	FunPlosion – Smart Bathroom in the New Normal !
151	Thailand	International School Bangkok	Athip Twinvitoo	Remora-1
152	Canada	The FlipNDrip Server™	Avia Annemarie Lee Anthony Alphanso Lee	The FlipNDrip Server™ : Combined Salad Bowl Drainer
153	Vietnam	Ha Noi – Amsterdam High School for the Gifted	Gia Bao Ngo Gia Khanh Do	IRAS – Intelligent Rubbish Can At School
154	Vietnam	M.V Lomonoxop Secondary & High School	Mai Ha An Le Hoang Long Nguyen Hoang Manh	PM2.5 negative ionization air cleaner (PNIC)
155	Thailand	Chulalongkorn University Demonstration Secondary School	EKACHOL PRASOPPHON PATINTHORN KUMMETHA SIRIRASA CHULACHARIT	Heat stroke alarm

156	Romania	Romanian Association for Alternative Technologies Sibiu – A.R.T.A. Sibiu	Mihail Aurel ȚÎȚU Constantin OPREAN Ion MĂRGINEAN Alexandru-Marcel MOLDOVAN Adrian BOGORIN-PREDESCU	PORTABLE HYDRO-ELECTRICAL TURBINE WITH DEFORMABLE PADDLES
157	Thailand	Chulalongkorn University Demonstration Secondary School	PHICHPHANITA MATHASURIYAPONG PAPITCHAYA RATANAJONGKOL MAWIN PORNNIMIT THUMMADEJ WATANASATITARPA KARNSINEE JAKSEMASATITKUL	HEAT-O-GO
158	USA	University of Washington Mississippi State University, WPI	Cyrus Nejat	Advanced Satellite Pitch-Flight Path Angle-rates Attitude Control System Method
159	Thailand	Chulalongkorn University Demonstration Elementary School	Pran Limlarpphon Piratpol Pholkajornkij Chawanvit Sirisak Nabuddha Tantipoj	JIG-PEN
160	Thailand	Chulalongkorn University Demonstration secondary school	Jaomai Tungsiripat Thanyanan Poonbundansin Marjimar Suvivhasopon Korn Hemrungronj	Less snore More sleep
161	Thailand	Chulalongkorn University Demonstration Secondary School	Chutirada Santivorapong Natthanicha Lertsrisakurat Rungarun Ausawalarp Sita Malakorn	MAG BOXZ
162	Thailand	Singapore International School of Bangkok	Napakapol Pitakteeratham Chatprapat Baikloy Nonlanee Kittipongwat Puttipat Kittipongwat	ReLeep – A New Lifestyle Technology
163	India	EAST INDIA TRADING COMPANY	ABDUL JALEEL AMANOOOR	The De-airing Pugmill is the latest innovation among the Zero waste Mineral Residue processing Installation
164	Thailand	Chulalongkorn University Demonstration Elementary School	THUN MINGKAEW SUPAKORN KITTANANUN SARANYAPONG PIYAYOPAB KANTAPON PRASARNSUK	Smart snorkel
165	Thailand	Chulalongkorn University Demonstration Elementary School	RONNAPAT SRIVORAVILAI DHARMATOUCH POURPONGPUN BOONYAKORN S. LEWSUWAN	Smart Umbrella
166	Thailand	Chulalongkorn University Demonstration Secondary School	Jeerathep Kosavisutte Naruechol Chinwattanakul Nattadanai Pinthanon Pannathorn Phinitwongwithaya	Smart Wheel Chair (SWC)
167	Thailand	Chulalongkorn University Demonstration Elementary School	Thitchaya Monkong Napassanun Sumetpimolchai Tarntham Ruangwuttisakulchai	Smart School Bag

168	Thailand	Chulalongkorn University Demonstration School	Punna Amornvivat Nuttaporn Prasitdumrong Phenpicha Wongvanichtavee Panalee Dechwatanapaisal	\$mart \$chool \$aving (\$\$\$)
169	Thailand	International Community School	Nattatida Pinthanon	Sterilizable
170	Thailand	Triam Udom Suksa School and Chulalongkorn University Demonstration Secondary School	Supitchaya Hemrungronj Kullanat Tovikkai Phuvadech Laophadungruchakorn Korn Hemrungronj	SURF Tent for SHOT (Special UVr Filter tent for Self Heliotherapy in Thailand)
171	Thailand	Chulalongkorn University Demonstration Elementary School	SARANYAPONG PIYAYOPAB SUPAKORN KITTANANUN THUN MINGKAEW KANTAPON PRASARNSUK	Thermoscan face shield
172	Thailand	Chulalongkorn University Demonstration Secondary School	Weeris Supatgiat Tanthong Nimnuankul Jidapa Snidvongs Na Ayuthaya	The Third Eye
173	Thailand	Chulalongkorn University Demonstration Elementary School	WYNN BOONYANUSASNA CELINE BOONYANUSASNA BOONYADA SANGMANEE PORAMIT SANGMANEE	TRAVEL POTTY
174	Thailand	Chulalongkorn University Demonstration Secondary School and Kamnoetvidya Science Academy	Thanyanan Poonbundansin Nichaphat Komonbut Pannathut Chitpakdee Napapone Leedamrongwattanakul Jeerawat Poonbundansin	Up Lift Shift Life - an innovative tool to prevent back and neck pain
175	Thailand	Chulalongkorn University Demonstration Elementary School	Tos Bovornvanich Nabuddha Tantipoj	UV pop pen
176	Malaysia	SJKT KANGKAR PULAI	GOMATHY A/P SANKARAN	CRUNCHY CENTELLA ASIATICA "MCCC"
177	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Ihor Shybka	THE DEVELOPMENT OF MULTIPROCESSOR COMBINED TELEMECHANICAL SYSTEM FEATURING COMMUNICATION CHANNEL WHICH BASED ON COMPUTER NETWORKS AND INTERNET PROTOCOLS
178	Hong Kong	The Education University of Hong Kong	Dr Anna Kam Chi-shan	Automatic Children Hearing and Listening in Noise Ability Screening System
179	Hong Kong	The Education University of Hong Kong	Dr Kean Poon Kei-yan	Computerized Working Memory Training for Students with ADHD and RD
180	Hong Kong	The Education University of Hong Kong	Dr Kevin Yuen Chi-pun	The MAndarin spoken word-Picture IDentification test in noise - Adaptive (MAPID-A)
181	Hong Kong	The Education University of Hong Kong	Dr Tsang Yiu Fai	Environmental Pollution Control through Practices: From "Waste" to "Treatment"

182	Malaysia	Multimedia University (MMU)	Prof. Dr. Ir. Sim Kok Swee Assoc. Prof. Ts. Dr. Tan Shing Chiang Mr. Toa Chean Khim Mr. Lim Zheng You	Left Right Brain Dominance Level Classification Based on Deep Neural Network Architecture and Electroencephalogram Signal
183	Malaysia	Multimedia University (MMU)	Dr R Kanesaraj Ramasamy Prof. Dr Chin Kuan Ho Ts. Dr Chung Ching Ho Dr. Intan Soraya Rosdi Dr Ruzanna Ab Razak Dr. Nurazlin Mohd Fauzi	SMART TOILET: IoT Implementation for Resources Optimization & Digital Lifestyle
184	Romania	University POLITEHNICA of Bucharest	Petre Lucian SEICIU Valentin BARBU	Vibrating Reclining System for Medical Rehabilitation
185	Malaysia	Universiti Malaysia Sabah (UMS)	Rayner Alfred Rayner Pailus	RTFaceDeep: A Real Time Multiple Face Detections and Recognitions for Video Surveillance Using a Deep Learning Architecture
186	Malaysia	Multimedia University (MMU)	Lew Kai Liang Ir. Prof. Dr. Sim Kok Swee Associate Professor Tan Shing Chiang Lim Choon Chen	VIRTUAL REALITY UPPER LIMB REHABILITATION
187	Poland	The Medical and Dental Engineering Centre for Research, Design and Production ASKLEPIOS Ltd in Gliwice, Poland	Lech B. Dobrzański Prof. Leszek A. Dobrzański Joanna Dobrzańska Karolina Rudziarczyk Anna Achteлик-Franczak	Accessory for personal protection of dental staff against SARS-CoV-2 coronavirus and other pathogenic microorganisms
188	Hong Kong	High Performance Solution Limited (HKU Startup)	Shien-Ping Feng Yu-Ting Huang Xinya Wu Chunlin Pang	Direct Thermal Charging Cell
189	Malaysia	National University of Malaysia	Norasmah Binti Othman Radin Siti Aishah Binti Radin A Rahman Abdul Gani Bin Abdul Rahim	Easy Cashflow
190	Philippines	RAMON MAGSAYSAY HIGH SCHOOL MANILA MANILA YOUNG INVENTORS ASSOCIATION (MYIA)	HANNAH ALYEAH S. ARRIOLA SEAN JENERY I. QUINTO HAITHAM AL-QUASSIM R. ACMAD ZOSIMA V. AUMENTADO	SeaCuReD: Seaweed Culture Self-Replenishing Device

JURY'S CHOICE AWARDS

Selection by the Jury/Evaluation Committee of iCAN 2020

No.	Country	Organization	Inventor(s)	Title of Invention
1	Malaysia	TG Ocean Health Food Industries Sdn. Bhd, Malaysia Universiti Sains Malaysia, Malaysia	Mr. Ong Thor Guan Mr. Koay Kai Bin Mr. Choong JinKooi Assoc. Prof. Dr. Foo Keng Yuen Dr. Lee Lai Kuan	Oat King Sport®
2	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Khrystyna Ambroziak	Prefabricated buildings based on transforming-frame technology
3	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Ihor Shybka	THE DEVELOPMENT OF MULTIPROCESSOR COMBINED TELEMECHANICAL SYSTEM FEATURING COMMUNICATION CHANNEL WHICH BASED ON COMPUTER NETWORKS AND INTERNET PROTOCOLS
4	USA	Brainventions Corporation, Inc.	Valeriy Nenov, PhD.	MusiShuZ Feet operated MIDI controller (Virtual Musical Instrument)
5	Malaysia	UNIVERSITI PUTRA MALAYSIA (UPM)	Prof. Ir. Ts. Dr. Mohamed Thariq bin Haji Hameed Sultan Dr. Adi Azriff Bin Basri William Robert Alvisse Dr. Syeed SaifulAzry Osman Al Edrus Mohd Edyazuan bin Azni	PUTRA UAV: Novel Bio-Degradable Natural Fiber Composite Material for Unmanned Aerial Vehicle Mainframe
6	Romania	Romanian Association for Alternative Technologies Sibiu – A.R.T.A. Sibiu	Mihail Aurel ȚIȚU Constantin OPREAN Ion MĂRGINEAN Alexandru-Marcel MOLDOVAN Adrian BOGORIN-PREDESCU	PORTABLE HYDRO-ELECTRICAL TURBINE WITH DEFORMABLE PADDLES
7	Hong Kong	LEDUS Lighting Company Ltd.	Yiu Kwok Wah Mexci	PC-Lite Photocatalytic Multifunctional Sterilization Device
8	Thailand	Chulalongkorn University Demonstration Secondary School	PHICHPHANITA MATHASURIYAPONG PAPITCHAYA RATANAJONGKOL MAWIN PORNNIMIT THUMMADEJ WATANASATITARPA KARNSINEE JAKSEMASATITKUL	HEAT-O-GO
9	Thailand	Chulalongkorn University Demonstration Elementary School	Poramit Sangmanee Nyanole Dardarananda Woratat Kosolpisitkul Primluck Bovornvanich Pluemkamon Thongkham Pavarit Tantrarattana Tos Bovornvanich Bhira Piromsopa	Crushed Bottle Bank
10	Thailand	International Community School	Nattatida Pinthanon	Sterilizable

ORGANIZER'S CHOICE AWARDS

Selection by the Organizer/Organizing Committee of iCAN 2020

No.	Country	Organization	Inventor(s)	Title of Invention
1	Malaysia	Jungle school Gombak Malaysia	Dr. Norzalifa Zainal Abidin Mr. Kalam Pie	Jungle School Gombak
2	Korea	Korean Minjok Leadership Academy (KMLA)	SEUNG HYO LEE SEUNGHYEUK LEE	3D-HisSite: 3D Reconstruction of Historic Sites Damaged by Drastic Climate Change via Image Inputs Utilizing Deep Learning
3	Romania	University POLITEHNICA of Bucharest	Petre Lucian SEICIU Valentin BARBU	Vibrating Reclining System for Medical Rehabilitation
4	Hong Kong	The Hong Kong Polytechnic University	Yuhong Wang Wang-Hei Ho Wei Sheng Yuhao Wang	A smart integrated road pavement and drainage system for stormwater storage, de-icing, dust suppression, and cooling
5	Romania	iSentinel	Mircea MANOLESCU	iSentinel® Home/Immo/Industry IoT – the earthquake intelligent protection and early warning solutions
6	Malaysia	Universiti Sains Malaysia (USM)	Dr. Nurhafizah Binti Md Disa Assoc. Prof. Dr. Nurhayati Binti Abdullah	Rapid Synthesized Graphene Oxide from Coconut Frond Wastes as Potential Supercapacitor's Electrodes
7	Thailand	Chulalongkorn University Demonstration Elementary School	BOONYADA SANGMANEE PORAMIT SANGMANEE WYNN BOONYANUSASNA CELINE BOONYANUSASNA	EFFERVESCENT DISPENSER
8	Thailand	Chulalongkorn University Demonstration secondary school	Jaomai Tungsiripat Thanyanan Poonbundansin Marjimar Suvivhasopon Korn Hemrungronj	Less snore More sleep
9	Iran	N/A	Hassan Abedi Rahmanlou Mahmood Esmaeili Omidvar Mohsen Tavakoli Shahram Ajorlou	Wind Turbine with a Combination of Several Turbines in the Handles
10	Macau	Macau Pooi To Middle School	LEONG WANG CHI	Classroom disinfection and health guard

BEST INVENTION DESIGN AWARDS

Selection of the Best 10 Invention Designs in iCAN 2020

No.	Country	Organization	Inventor(s)	Title of Invention
1	Morocco	N/A	Mohamed Yalouh	The Hexagon Rotor Rotary Engine
2	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Dmytro Steblyna Vitalii Kriuk	The Hypercoil: high-efficiency wireless electricity transmission technology
3	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Ivan Zahorulko	Eco-friendly multifunctional device for bathroom
4	USA	LA New Product Development Team	Onega Ulanova Konstantin Dolgan	UP Dock
5	Vietnam	Chu Van An Junior High School, Vietnam Montverde Academy, USA	Tran Nguyen Khanh An Đỗ Trọng Minh Đức	VIHELM- Power air purifying respirators
6	Macau	The Affiliated School of the University Macau	Chan Peng Him Lam Weng Him Hong Weng Fong Chan Wai Chon LIN YANLONG (tutor)	Robot for extreme environment exploration based on Arduino
7	Iran	N/A	Vahid Khouri Arash Tahmasebifar Maziar Ghandian Zanjan Seyed Mostafa Rahmatbakhsh Anahid Khori Arad Tahmasebifar Rezvan Movahedirad Seyedeh Helia Rahmatbakhsh Mehdi Khouri Sima Sadighi Mohammadmehdi Motahari	A New Method, Device, Software and Application for Converting Fresh Fruits and Plants Residue to Cosmetic and Medical Semi-solid Products
8	Poland	Wrocław University of Science and Technology	dr Michał Majcherek (PhD) dr inż. Sylwester Borowski (PhD Eng.)	HOME GRINDER FOR PLASTIC WASTE, SPECIFICALLY INTENDED FOR PET BOTTLES, POWERED BY A RENEWABLE ENERGY SOURCE
9	Thailand	International School Bangkok	Athip Twinvitoo	Remora-1
10	Thailand	Harrow International School Bangkok	Kawin Leephakpreeda Nicha Muninnimit	Stymus — an invention that lets you draw and write with a mouse

BEST INVENTION VIDEO AWARDS

Selection of the Best 10 Invention Video Presentations in iCAN 2020

No.	Country	Organization	Inventor(s)	Title of Invention
1	Malaysia	Multimedia University (MMU)	Dr R Kanesaraj Ramasamy Prof. Dr Chin Kuan Ho Ts. Dr Chiung Ching Ho Dr. Intan Soraya Rosdi Dr Ruzanna Ab Razak Dr. Nurazlin Mohd Fauzi	SMART TOILET: IoT Implementation for Resources Optimization & Digital Lifestyle
2	Malaysia	UNIVERSITI TEKNOLOGI MALAYSIA (UTM)	NORHIDAYAH ABDUL HASSAN ZAKARIYA YAHYA MAHSSIN MUZAKKIR MOHAMMAD ZAINOL NOR AISHAH SAIDINA AMIN MOHD ZUL HANIF MAHMUD	Asphalt FWB
3	Malaysia	SKJT TAMAN MELAWATI	Kavisha A/P Nagarajan Kailesh A/L Saravanan Yuvika A/P Mahaganapathy	MySoil MyPlant
4	Canada	ROCKit SINGLE FOOT SKATE	Luis M. Duarte	Single Foot Skate "Rockit"
5	Thailand	Chulalongkorn University Demonstration Elementary School	Pranrak Baikloy Bharawee Nhongharnpitak Bhuricha Nhongharnpitak Kaweewat Santivorapong Yanawatana Krisdathanont	FunPlosion – Smart Bathroom in the New Normal !
6	Thailand	Chulalongkorn University Demonstration Secondary School	Lapasrada Paseephol Nichanun Subsompon Nathaporn Piboonratanakit	Eco Nut
7	Thailand	Chulalongkorn University Demonstration Secondary School	Rattchapol Singtoroj Tanyapat Triwitayakorn Varissanan Jaiweerawattana	CU WASH (SEE YOU WASH)
8	Malaysia	Universiti Teknologi Malaysia (UTM) Eco Bee Shop Sdn Bhd	Assoc. Prof. Dr. Mohd Azizi Che Yunus Cathie Tan Ah Tee Bruce Cheong Chiew Soong Dr. Lee Nian Yan Zuhaili Idham Nor Faadila Mohd Idrus	Malaysian Kelulut (Stingless Bee) Golden Propolis Extract
9	Malaysia	LABUAN INTERNATIONAL SCHOOL	MS FAIRZAN NAZZILA BINTI MOHD NAZRIE MR RIZUAN ASMARAH MDM WARNNIE MUSAH	TELEMUSIM
10	Malaysia	TG Ocean Health Food Industries Sdn. Bhd, Malaysia Universiti Sains Malaysia, Malaysia	Mr. Ong Thor Guan Mr. Koay Kai Bin Mr. Choong JinKooi Assoc. Prof. Dr. Foo Keng Yuen Dr. Lee Lai Kuan	Oat King Sport®

BEST WOMAN INVENTOR AWARDS

Selection of the Best 10 Woman Inventors in iCAN 2020

No.	Country	Organization	Inventor(s)	Title of Invention
1	USA	N/A	Theresa Marybeth Lay	Edible Holy Communion Gel Capsule
2	Hong Kong	The Education University of Hong Kong	Dr Kean Poon Kei-yan	Computerized Working Memory Training for Students with ADHD and RD
3	Hong Kong	The Education University of Hong Kong	Dr Anna Kam Chi-shan	Automatic Children Hearing and Listening in Noise Ability Screening System
4	Hong Kong	Diocesan Girls' School imMaker Education Limited	Choi Ching Lam	Corona-Net: Fighting COVID-19 With Computer Vision
5	Malaysia	N/A	TECK CHOY, CHONG	ECO-CUP
6	Malaysia	Universiti Teknologi Malaysia SHE Empire Sdn. Bhd.	Assoc. Prof. Dr. Siti Hamidah Mohd. Setapar	Roselle Extracts as Emerging Sustainable Materials for Wellness Industries
7	Hong Kong	High Performance Solution Limited (HKU Startup)	Dr. Vivian Yu-Ting Huang	Direct Thermal Charging Cell
8	Kuwait	Electrodis Est.	Jenan Esam Saleh AIShehab	WIRELESS POWER TRANSMISSION SYSTEM
9	Thailand	Chiang Mai University	Asist. Prof. Dr. Ruttiros Khonkarn	Improving efficacy of Thai herbal extracts by nanotechnology for pain treatment
10	Iran	N/A	Neda Sajedi	Smart helix parking

BEST YOUNG INVENTOR AWARDS

Selection of the Best 10 Young Inventors in iCAN 2020

No.	Country	Organization	Inventor(s)	Title of Invention
1	Philippines	RAMON MAGSAYSAY HIGH SCHOOL MANILA MANILA YOUNG INVENTORS ASSOCIATION (MYIA)	HANNAH ALYEAH S. ARRIOLA SEAN JENERY I. QUINTO HAITHAM AL-QUASSIM R. ACMAD ZOSIMA V. AUMENTADO	SeaCuReD: Seaweed Culture Self-Replenishing Device
2	Macedonia	Yahya Kemal College	Kiril Risteovski Lara Samardzieva	Zeolite & Lavender – Heavy Metal Hunters In Restoring Soil
3	Malaysia	LABUAN INTERNATIONAL SCHOOL	FADLIN AIMUNI BINTING WARNNIE BINTI MUSAH	GEAR BULAN
4	Thailand	Chulalongkorn University Demonstration Elementary School	Charita Kumworachai Pawarisa Lerdloomphephan	2-in-1 Eraser Dust Cleaner
5	Macedonia	Yahya Kemal College - Skopje	Matej Milosievski	THE ENVIRONMENTAL EFFECTS OF WRITING: FINDING AN ECO-FRIENDLY ECONOMICAL AND SAFE WAY OF WRITING
6	Ukraine	Junior Academy of Sciences of Ukraine under the auspices of UNESCO	Anastasiia Venchkovska	Mathematical modeling of an environmentally-friendly cup
7	Macedonia	Yahya Kemal College Karposh	Meryem Alkin Engin Alkin Ahmet Tarik Dinc	Fresh plant of lavender, fresh flower of lavender and dried lavender "Lavender-wonder plant that removes heavy metals from water" Continuation project
8	Malaysia	SJK THAI KWANG SIBU	RONALD HU KING ONN BRYSON KONG YEW FOO LUCAS NGANG JIM XUEN CHIENG LEY FONG SIAO CHIN TZE	RYG TRAFFIC LIGHTS
9	Malaysia	SKJT TAMAN MELAWATI	Kavisha A/P Nagarajan Kailesh A/L Saravanan Yuvika A/P Mahaganapathy	MySoil MyPlant
10	Vietnam	DAO DUY TU HIGH SCHOOL	LE THANH BINH NGUYEN NGOC TRANG NGUYEN THI THUY LINH	Development of a cement mortar containing silicon dioxide to plaster a walls help against the heat of the sun in the summer

TOP 20 BEST INVENTION AWARDS

Overall Selection of the Top 20 Best Inventions in iCAN 2020

No.	Country	Organization	Inventor(s)	Title of Invention
1	India	EAST INDIA TRADING COMPANY	ABDUL JALEEL AMANOOR	The De-airing Pugmill is the latest innovation among the Zero waste Mineral Residue processing Installation
2	Hong Kong	N/A	PUN Chi Sum Summy	Bottle Decomposer / To Revolutionise Recycling
3	Hong Kong	The University of Hong Kong	Junwei Zhang Yan Tung Lo Yunlun Wu Hao Guo Chuyang Tang	Nano-functionalized porous membrane filter for reusable face masks
4	Philippines	Manila Science High School	Firstene Arvhie A. Badua Rovie P. Labastida (coach)	Affordable and Effective Texting Fire Detector (AETFD) 2.0
5	Hong Kong	The Education University of Hong Kong	Dr Kevin Yuen Chi-pun	The MANDarin spoken word-Picture IDENTification test in noise - Adaptive (MAPID-A)
6	Hong Kong	The Education University of Hong Kong	Dr Tsang Yiu Fai	Environmental Pollution Control through Practices: From "Waste" to "Treatment"
7	Croatia	University of Zagreb	Galla Uroić, mag.ing.min. Želimir Veinović, Ph.D., Professor	Improvement of the numerical analysis model of thermo-hydro-mechanical effects in host rock for spent nuclear fuel repository
8	Poland	The Medical and Dental Engineering Centre for Research, Design and Production ASKLEPIOS Ltd in Gliwice, Poland	Lech B. Dobrzański Prof. Leszek A. Dobrzański Joanna Dobrzańska Karolina Rudziarczyk Anna Achtełlik-Franczak	Accessory for personal protection of dental staff against SARS-CoV-2 coronavirus and other pathogenic microorganisms
9	Malaysia	MAKTAB RENDAH SAINS MARA JELI	AZMY BIN AWANG ANIQ NOR RAHIMI BIN ABU SEMAN MUHAMMAD HAFIZ HAIKAL BIN ZAHAR	GREENTECH BIOCOMPOSITE PLASTIC MADE FROM BANANA PEDUNCLE, <i>Cucurbita</i> spp. & <i>Benincasa hispida</i>
10	Malaysia	PETRONAS University of Technology University Kebangsaan Malaysia	Prof. Dr. Norasmah Binti Othman Adam Daniel Bin Effendi Iskandar Danial Bin Adam Adonis Nurulain Binti Rumaizi Nabilla Afzan Binti Haji Abdul Aziz	Final.Ly: B40(Low Class) and M40 (Middle Class) Life Cycle Programme

TOP 10 BEST INVENTION AWARDS

Overall Selection of the Top 10 Best Inventions in iCAN 2020

No.	Country	Organization	Inventor(s)	Title of Invention
1	USA	University of Washington Mississippi State University, WPI	Cyrus Nejat	Advanced Satellite Pitch-Flight Path Angle-rates Attitude Control System Method
2	Canada	PKA Soft Touch	Dick Crawford	PKA SoftTouch Mirco-Needle
3	Thailand	AVS Innovation Co., Ltd.	Phiyada Kayak Varinthon Chairojrat Duangsiri Laikijrung Sahawish Rojviroon Srung Smanmoo	PHUM PHLAI SPRAY (Muscle Pain Relief Spray From Phlai Microcapsules)
4	Malaysia	Universiti Teknologi Malaysia (UTM) Eco Bee Shop Sdn Bhd	Assoc. Prof. Dr. Mohd Azizi Che Yunus Cathie Tan Ah Tee Bruce Cheong Chiew Soong Dr. Lee Nian Yian Zuhaili Idham Nor Faadila Mohd Idrus	Malaysian Kelulut (Stingless Bee) Golden Propolis Extract
5	Hong Kong	High Performance Solution Limited (HKU Startup)	Shien-Ping Feng Yu-Ting Huang Xinya Wu Chunlin Pang	Direct Thermal Charging Cell
6	Sri Lanka	N/A	MOHAMED DAROOK MOHAMED ZACKI LATHEEF	PASTE TO TREAT FOR SKIN DISEASES
7	Slovenia	N/A	Srečko Pisnik	Innovative Plate Easebelt Dynamic MM
8	Malaysia	PUBLIC WORKS DEPARTMENT OF MALAYSIA	Ir. ATIKAH BT ABDUL HAMID Ir. HASRUL NIZAM BIN ABDUL RAHMAN NOOR EZLYN BT OTHMAN AMIR ASROL BIN AHMAD BANGI MOHAMED FIRDAUS BIN OTHMAN	F-FLEX: FLEXIBLE JOINT FOR RAINWATER DOWN PIPE
9	Malaysia	TG Ocean Health Food Industries Sdn. Bhd, Malaysia Universiti Sains Malaysia, Malaysia	Mr. Ong Thor Guan Mr. Koay Kai Bin Mr. Choong JinKooi Assoc. Prof. Dr. Foo Keng Yuen Dr. Lee Lai Kuan	Oat King Sport®
10	Malaysia	Multimedia University (MMU)	Prof. Dr. Ir. Sim Kok Swee Assoc. Prof. Ts. Dr. Tan Shing Chiang Mr. Toa Chean Khim Mr. Lim Zheng You	Left Right Brain Dominance Level Classification Based on Deep Neural Network Architecture and Electroencephalogram Signal

BEST DELEGATION AWARD

Selection of the 3 Most Highlighted International Delegations in iCAN 2020

No.	Country	Organization
1	Romania	ROMANIAN INVENTORS FORUM (FIR)
2	Ukraine	JUNIOR ACADEMY OF SCIENCES OF UKRAINE (JASU) – UNDER THE AUSPICES OF UNESCO
3	Macao	MACAO INNOVATION AND INVENTION ASSOCIATION (MIIA)

SEMI-GRAND PRIZE

Selection of the 2nd Highest Honour in iCAN 2020 by Unanimous Decision

Dr R Kanesaraj Ramasamy Prof. Dr Chin Kuan Ho Ts. Dr Chiung Ching Ho
Dr. Intan Soraya Rosdi Dr Ruzanna Ab Razak Dr. Nurazlin Mohd Fauzi

Multimedia University (MMU)
Malaysia

SMART TOILET: IoT Implementation for Resources Optimization & Digital Lifestyle

THE GRAND PRIZE

Selection of the 1st Highest Honour in iCAN 2020 by Unanimous Decision

TCI GENE INC.
China

QVS-96, the fully automated detection integration system