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Target Readers:

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Shareholder / Investor / Financial Institution

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Social Engagement
NT\$ 80 Million



The Magic of Circular Economy

Free On-campus Environmental Education Program

42 Sessions

Benefiting 2,204 Students

(As of the end of January 2024)

Far Eastern Memorial Foundation

Approximately NT\$160 Million

for Arts and Cultural Programs in Four Years

FENV and FEAV
Improving Water Purification
and Sanitation
for Remote Elementary Schools

The 14th FENC Classic Marathon

Participation From Over

4,000 Runners



Y. Z. Hsu Science Award

Accumulating Nearly

NT\$190 Million



Taiwan Young Student Physicists' Tournament

2,112 Contestants

NT\$14.67 Million Total Prize Money

Taiwan Young Student Physicists' Tournament

Recognized and Advised by
Ministry of Education

Y. Z. Hsu Innovation Forum

91% Satisfaction

Program Videos 18,000 Views

Program Website One Million Impressions

Far Eastern Humanities and Arts Forum

Nearly 300 On-site Participants

Far Eastern Architectural Design Award

Historic Tour Month – Rediscovering Dadaocheng

Praises From Nearly 600 Participants



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With the belief, “benefited from the society, returning benefits to the society,” FENC has been dedicating itself to non-profit and charitable causes for over half a century. The Company promotes the well-being and broadens international perspective within the society through its core strengths or capital, and gives back to the public by establishing non-profit organizations powered by synergistic efforts within the corporation. Such efforts have brought together forces from all fields, creating a coalition that fosters inclusion and understanding and paving the way to a beautiful society.

5.1 Social Engagement at FENC Sites

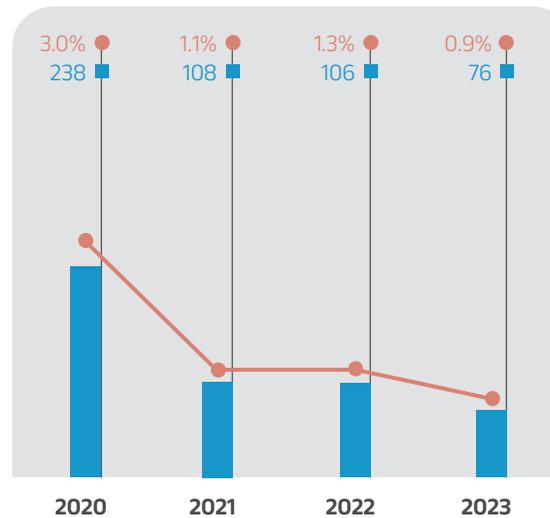
FENC’s worldwide operation spans across Taiwan, mainland China, Vietnam, Japan and the U.S. For years, FENC has been building rapport with residents in the communities adjacent to its operation sites, such as Hsinchu County and Taoyuan City in Taiwan. The company engages community organizations and provides resources, such as venues for community assemblies or fire drills. The Company also extends a helping hand to the underprivileged members of the community, conduct beach cleanup campaigns and help schools and local neighborhoods clean their environment. Volunteers from all FENC sites contributed a total of 3,341 hours to non-profit causes in 2023. In order to promote the circular economy, recycling and reuse, FENC formed partnerships across disciplines to develop environmental education programs, spreading the seeds of recycling and circularity.

5.1.1 Expanding Social Impact Through Core Strengths

FENC taps into its core competencies in the implementation of environmental education, trying to raise public awareness of recycling and environmental protection. For instance, FENC partners with B Corporations on the development of “The Transformative Magic of Circularity,” a school program targeting fifth and sixth graders featuring the circular economy. This is a free on-campus program offered to schools adjacent to FENC production sites in Taiwan. As of the end of January 2024, 42 sessions had been held, which benefited 2,204 students. FENC production sites in Vietnam also joins AEON Vietnam Co., Ltd. (AEON) and holds regular environmental festivals, where the Company interacts with participants through lectures, games and exhibitions to help them be familiar with recycling concepts and proper recycling methods. Additionally, FENC built displays showing the process and applications of PET bottle recycling and remanufacturing. The displays have been provided to Beitou Refuse Incineration Plant since 2015 as part of the exhibits at its environmental education center, the Egret Academy, to boost public understanding towards the recycling of PET bottles. More details are included in [Special Report 3. Cultivating Circular Economy Through Environmental Education](#). Aside from the above, FENC production sites also incubate future talents by offering internship opportunities to students.

Amount Invested in Social Engagement and Percentage to Profits After Tax

Unit: NT\$ million



■ Amount Invested in Social Engagement
■ Percentage to Profits After Tax

Note:

- The total amount invested in social engagement includes the main subsidiaries on FENC’s consolidated statement. Among them, FarEasTone Telecommunications, Co., Ltd publishes its own Sustainability Report.
- The 2020 social engagement investment grew considerably due to a donation totaling NT\$118.751 million for the establishment of Y. Z. Hsu International Conference Hall. Without this donation in 2021, the total dropped by 53% compared to 2020.



Enhancing Student Perception and Cognition Through Internship

In July 2023, the Education Department of New Taipei City Government held a student camp for the second-generation Vietnamese immigrants. Twenty college, high school and vocational school students from immigrant families were chosen to participate in a collaborative program that incorporated efforts from the industry, government and academia. The students flew to Vietnam. While exploring their culture, they took part in activities that featured fashion textile and visited international corporations, including FENC.

FENC’s garment plants in Vietnam produce sports apparel for major international brands. The plants have been actively incorporating automated production, logistics and warehousing systems to enhance the operational and management performance. FEAV showed its support for the government by welcoming the visiting students with a demonstration of the production process and a tour through the plant. The experience helped students gain insights into the future trends for international corporations in Southeast Asia, and acquire practical corporate experience and competitiveness essential for their future careers.

Since 2016, FEIS – Petrochemical Business has been offering cognitive apprenticeship programs to students from the School of Resource and Environmental Engineering of East China University of Science and Technology. The junior students joined the program on site with staff from the Environmental Safety and Technology Departments, who explained wastewater treatment theories and facilities. The Utilities Department then demonstrated wastewater treatment on site to the students and faculty along with various operational procedures. The visit combines theories and field practices, helping students develop a more intuitive understanding towards wastewater treatment.

Hukou Mill also received 76 students and faculty members from the College of Fashion and Textiles of Fu-Jen Catholic University on May 10, 2023. The staff illustrated the production process as well as the products, and followed up with a tour of the plant to demonstrate the production techniques, helping students comprehend the complex subjects.



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5.1.2 Community Care and Sustainability Action

FENC production sites advocate the United Nations Sustainable Development Goals (UNSDGs) by participating in a wide array of community activities. Among them is the donation made by OGM to Shulin Elementary School to repair the pavement near the school entrance. In 2022, FEIW donated the Far Eastern Sky Farm to Wuxi Child Welfare Center. The goodwill continued in 2023 with additional donation of goods. Meanwhile, a visit to the Wuxi Child Welfare Center was arranged for the children of FEIW employees as a summer camp activity, where the children interacted through games. FEAV also shows its support for community care through ongoing sponsorship to orphanages. In 2023, all FENC production sites continued their efforts in social engagement, mitigating social and environmental issues by focusing on the eradication of poverty, improvement of sanitation and protection of the natural environment.



Improving Water Purification and Sanitation for Remote Elementary Schools (WASH)

Though water supply and sanitation facilities are available at schools in Vietnam, many are not fully utilized or in need of repair. To provide clean drinking water to the school children and to improve the facilities for better hygiene and environmental health, FENV joined the Water, Sanitation and Hygiene (WASH) program in 2022 and 2023.

FENV worked with Iululemon on the project, Vender Here to Be 2022. The project team joined non-profit organizations to install restrooms and water purification facilities for Bu Gia Map Elementary School in Binh Phước Province, Vietnam. The construction, which began in March 2022, was completed in September with three-year maintenance service. The improvement is expected to reduce the occurrence of diarrhea and other diseases caused by the lack of sanitary facilities among students, and provide students in remote elementary schools with access to clean water and a comfortable school environment. The project raised the awareness of hygiene and sanitation among over 300 school children. FENV and FEAV also installed the water purification system for Tan Hoa Elementary School in July 2023 and provided the maintenance service, ensuring hygiene and sanitation for each child.



FENC Classic Marathon, Running for Environment, Health and Public Good

The 14th FENC Classic Marathon took the center stage on October 21, 2023. The 6K, 9K, 22K and 42K runs attracted over 4,000 running enthusiasts, including international participants and even group runners from Vietnam. During the race, the runners enjoyed the bucolic beauty of Hsinpu amid the gentle breeze.

While competing for medals and rewards, all runners received a Far Eastern running jersey. The 2023 jerseys are made of recycled waste apparel using FENC's textile recycling technology. They are moisture wicking and quick drying. They also protect against the ultraviolet light from the scorching sun. This technology has given waste apparel a second life.

In recent years, FENC Classic Marathon has become a major sports event in the Hsinpu region. While the event receives support from the Company, the voluntary service provided by the employees has also been instrumental. The sports carnival brought back many retired employees, and the performances provided by students of the nearby Wenshan Elementary School spread warmth and affection among the local residents.

In addition to advocating health and environmental protection, FENC has been collaborating with Huashan Social Welfare Foundation since 2016 on the "Love for the Elderly" campaign. The Company invites runners to donate their race chips to raise funds for the disadvantaged elderly in the Hsinpu region. As of 2023, the donated chips helped raise a total of NT\$790,000, which was used to prepare gifts during traditional festivals and provide year-round home service, such as home visits and escorts for medical appointments.

14th FENC Classic Marathon Attracting Over 4,000 Runners (Chinese)

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Building Hope Through Poverty Eradication and Health Promotion



The year 2023 was a year of collaboration for FENC. Its production sites formed alliances across the society, donating scholarships and goods that benefited school children, families in poverty and the disadvantaged population.

At APG Polytech, social engagement and community care are a long-term endeavor. Each year, APG Polytech invites its employees to join Crosslight of Hope- - Thanksgiving Food Drive, donating and delivering food to local families in need so they can enjoy a healthy Thanksgiving. Over 50 employees took part in the 2023 food drive. They were personally involved in every step, purchasing, packing and delivering the food. It is the hope that the food drive will help strengthen the bond and mutual trust between APG Polytech and the local community. While employees gain a sense of satisfaction, the needs of the local families are met. APG Polytech also donated scholarships and sports equipment to three local high schools. In February 2023, a local non-profit organization, Lily's Place, hosted the event, Death by Chocolate. The event included an auction, during which APG Polytech donated healthcare funds to infants with neonatal abstinence syndrome (NAS) by making bids, helping to end the cycle of addiction for these young lives.



In Vietnam, FEPV participated in the program led by the Child Protection Association in Binh Dương Province and offered scholarships to 19 students from low-income families. FENV collaborated with the police force for firefighting, disaster preparedness and response from Binh Phước Province on a welfare program, which provided 30 new year gifts to low-income and middle-to-low-income families, sharing warmth and love during the new year. FEAV participated in the program from the Economic Security Unit and presented 200 gifts to disadvantaged families in Trà Vinh Province in October 2023.



OGM partnered with the EMBA Alumni Association of National Central University and the United Manufacturers Association from Taoyuan Environmental Science and Technology Park and Tatan Industrial Park, and donated to ten junior high and elementary schools in Guanyin and Xinwu Districts of Taoyuan City. The donation funded scholarships, club activities and after-school tutoring programs, providing better school environment and resources to help students from remote areas in Taoyuan to pursue their dreams. The donation has benefited approximately 1,500 students.



FEDZ teamed up with its customer, lululemon, and planned a donation for local schools offering special education. The donation included fitness equipment, such as plastic hurdles, ball pit balls, outdoor trampolines, tricycles, 15-meter wooden fitness training sets and bouncing balls with handles. The equipment, which provides exercise assistance to children with special needs, has received compliments from the students and teachers!

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Clean Initiative for Earth



In April 2023, OPTC led a team of 110 members, including employees and their families, to join a marine and beach cleaning as well as energy conservation campaign held in Caota Sand Dunes. During the beach cleaning event, participants removed 2.6 metric tons of waste materials and 0.5 metric tons of recyclables. On May 7, Kuanyin Dyeing and Finishing Plant held a beach cleaning campaign at the section three coastal area south of Yongan Fishing Harbor. The event received the support of 48 employees.

OTIZ held a family mountain cleaning campaign on May 13. The 46 participants broke into smaller teams and picked up trash as they walked through the mountains, lessening the burden on mother nature with actions.



Between July and September 2023, FENV started the campaign, Waste Batteries for Reusable Bags, with local neighborhood associations. Local residents received free reusable bags designed and produced by FENV when they recycled batteries. The campaign helps local residents and their children understand the proper ways to recycle waste batteries and the environmental consequences when done improperly. The residents eagerly participated and recycled a total of 100 kilograms of waste batteries, which were disposed of by hazardous waste treatment agencies after the event. The campaign has successfully raised environmental awareness among the local residents.

FEAV arranged a company trip for the employees and their families in September. A total of 2,767 members participated in a wide range of activities during the trip, including team building, sightseeing and evening banquets. The trip also incorporated an environmental aspect, the beach cleaning. The activity demonstrated FEAV's commitment to and implementation of ESG. It also helped build cohesion. While protecting the environment, the beach cleaning improved the environmental awareness among the employees and communities.



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5.2 Social Engagement by Corporate Foundations

FENC believes in “benefitting from the society, returning benefits to the society.” The Company has been branching into charitable causes since the 1960s, devoting attention to education, arts, culture, healthcare and technology while dedicating corporate resources to humanitarian care for local communities. It is the hope that by providing long-term support in social engagement, FENC will bring warmth to all who are in need.

Vision and Direction for Social Engagement

 Quality Healthcare	SDG 3.8 Achieve universal health coverage, including financial risk protection, access to quality essential healthcare services and access to safe, effective, quality and affordable essential medicines and vaccines for all.
 Youth Talent	SDG 4.3 By 2030, ensure equal access for all women and men to affordable quality technical, vocational and tertiary education, including university.
 Industry Evolution	SDG 8.2 Achieve higher levels of productivity of economies through diversification, technological upgrading and innovation, including through a focus on high value-added and labor-intensive sectors.
 Social Development	SDG 11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries.

Establishing the Non-Profit Organizations to Contribute to the Society

Tech Sector	Educational Sector	Click the LOGO to Enter the Website 	
			
Far Eastern Y. Z. Hsu Science and Technology Memorial Foundation (Chinese Website) Established in 2001	Asia Eastern University of Science and Technology Established in 1968	Yu Chang Technological and Commercial Vocational Senior High School (Chinese Website) Established in 1980	Yuan Ze University Established in 1987
Arts and Culture Sector	Medical Sector		
			
Far Eastern Memorial Foundation (Chinese Website) Established in 1976	Far Eastern Medical Foundation Established in 1977	Far Eastern Memorial Hospital Established in 1981	Far Eastern Polyclinic (Chinese Website) Established in 1988

5.2.1 Quality Healthcare

Improving Quality of Medical Service with Medical Institutes: Far Eastern Memorial Hospital / Far Eastern Polyclinic

In the 1970s, Y. Z. Hsu, founding individual of Far Eastern Group (FEG), became aware of the lack of modern hospitals in New Taipei City. Back then, patients suffering major injuries or acute illnesses had to seek medical treatments in Taipei City. The distance often caused delayed treatment and ultimately tragedies. To prevent such unfortunate occurrences, FEG made donations to establish Far Eastern Medical Foundation, which was founded upon the missions to build hospitals; incentivize medical research; provide emergency and medical care as well as free clinics for underprivileged patients. The Group went further by building Far Eastern Memorial Hospital in Banqiao in 1981 and Far Eastern Polyclinic in Taipei City in 1988.

Far Eastern Memorial Hospital (FEMH) has officially begun its 42nd year of service. It is the first medical center in New Taipei City and has grown over the years. FEHM currently offers 81 medical specializations, 1,415 beds and 150,000 monthly out-patient appointments with two medical centers. Its dedication to patient service is acknowledged by the National Quality Award as well as Disease Specific Care Certification.

In May 2023, FEMH signed the Sustainable Development Proposal for hospitals with Taiwan Institute for Sustainable Energy (TAISE), pledging to foster robust governance and exercise its social influence to fulfill environmental sustainability. The aim is to reach carbon neutrality and complete the green transition by 2050. In recent years, FEMH has been improving the building design, air-conditioning and lighting system to minimize energy consumption. It also examines the water and waste management on a regular basis to safeguard the health of the people, conserve energy and reduce carbon emissions. FEMH received the International Golden Award for Tobacco-free Hospitals in 2023. The hospital incorporates smart recognition using information system, provides automatic inter-disciplinary referral for patients who are trying to quit smoking, and promotes the smoke-free culture from the inside out, reaching schools and communities, and creating a sustainable smoke-free environment for all ages.



Far Eastern Memorial Hospital fulfilling its responsibility with continuous improvement in healthcare quality and efficiency

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Consecutive National Innovation Awards for FEMH

Following the four Excelsior Awards from National Innovation Awards in 2022, FEMH was honored yet again with four Excelsior Awards for innovations in academic research and two additional awards for innovative excellence in 2023. The winning projects span across AI, precision testing and innovative surgical technologies, demonstrating excellence in academic research and clinical development, and providing quality care to patients with a multitude of treatment options.

AI-powered Healthcare Revolution

FEMH utilizes AI, big data as well as machine learning and prediction to address the shortcomings regarding manual assessment and classification of burn area and depth. The hospital also optimized medical image analysis and lesion detection to provide the best medical treatment and shorten the detection time. The three award-winning projects related to AI are “One-stop CT Myocardial Perfusion Imaging in the Evaluation of Patients with Severe Coronary Artery Stenosis;” “AI-powered Burn Diagnosis Platform and Software;” “AI-assisted Automatic Meningioma and Acoustic Neuroma Detection System.”

Early Dementia Diagnosis with Innovative Biomarkers

FEMH uses amyloid T-cell responses as innovative biomarkers for cognitive impairment, which identify patients with mild cognitive impairment with higher precision than p-Tau181, the biomarker approved by the U.S. Food and Drug Administration, thus receiving the Excelsior Award.

A New Era for Spine Surgery with UBE

The two projects receiving the Excelsior Awards for innovative excellence are “The Application and Development of Unilateral Biptoral Endoscopic (UBE) Spine Techniques in Spine Surgeries” and “Fast Navigation and Smart Screw Implant System for Spine Surgery in Hybrid Operating Room,” which have ushered in a new era for spine surgeries. Since 2018, FEMH has performed over 1,000 UBE surgeries with multiple papers published in academic journals. The injection device and bone chisel also received authorization for technology transfer, attracting medical doctors from home and abroad to further their study at FEMH. In addition, the hospital developed the hybrid surgical navigation system with biomedical companies and has received patent approval.



Eliminating Vision Problems – 2023 Children’s Eye Care Art Competition

To promote vision health among school children in New Taipei City, the Education Department and Department of Health of New Taipei City Government collaborated with Far Eastern Memorial Foundation, FEMH, Asia Eastern University of Science and Technology and National Yang Ming Chiao Tung University on a children’s vision care campaign in 2021 to improve vision health among school children.

In 2023, Far Eastern Memorial Foundation brought back Professor Yiing-Mei Liou from National Yang Ming Chiao Tung University, who has a wealth of knowledge in vision care for children. The foundation hosted the 2023 eye care art campaign with FEMH, Asia Eastern University of Science and Technology, Rotary District 3481 and Yung Chi Paint and Varnish Manufacturing Company Ltd., and the Education Department of New Taipei City Government served the advisory role. Third to sixth graders from elementary schools in New Taipei City were invited to paint the landmarks of New Taipei City with their families in an outdoor environment. A total of 56 teams registered for the competition.

Tpark was chosen as the venue for the comfort, greenery and relaxing atmosphere that the office workers and local residents enjoyed on a daily basis. With an ecological park that occupies approximately 30,000 square meters, children and their parents could protect their vision by relaxing their eyes when painting in this urban oasis.



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5.2.2 Youth Talent

Establishing Educational Institutes That Facilitate Diverse and Adaptive Learning: Asia Eastern University of Science and Technology / Yu Chang Technical and Commercial Vocational Senior High School / Yuan Ze University

FENC values diverse and adaptive learning, encouraging students to apply what they have learned to achieve self-fulfillment. Over the years, the Company has established the Oriental Institute of Technology, Yu Chang Technical and Commercial Vocational Senior High School and Yuan Ze University, providing students with options in terms of the right educational environment based on career development to bridge the gap between what students learn at schools and the skills required at the workplace. Since 2012, the affiliates of FEG expanded the practical training program for students. As of today, 979 students have participated in the industry-academia internship program and entered the companies after graduation. Such programs have created a win-win for students, corporations and society. (Please refer to [4.1.2 Recruitment and Retention](#).)

Asia Eastern University of Science and Technology, formerly known as Oriental Institute of Technology, delivered a remarkable performance at Seoul International Invention Fair, winning four gold, two silver and eight bronze awards as well as two special prizes, one from Saudi Arabia and one from Malaysia. Among the winning projects, a gold award and special prize from Saudi Arabia were presented to “Biosensing Drug Storage Device” for incorporating a humanized design to send medication reminders to patients and stabilize patient conditions. “Rehabilitation Device and Methodology for Cognitive Degeneration” won the silver award and special prize from Malaysia for the design of a multi-player game that encourages social interaction and increases a sense of well-being among the elderly. The students and faculty of Asia Eastern University of Science and Technology focus on the research of advanced studies such as cloud computing, big data and AI. Their collaboration have sparked inventions that embody their incredible research and innovative abilities.



New Program for New Age, Cultivating Resilient Talents at Asia Eastern University of Science and Technology

The world is changing at an incredible pace, and Yu Chang Vocational High School (YCVS) has positioned itself as an incubator of talents with critical skills that will drive global development. The school focuses on adaptive development; cross-industry learning; digital technology; initiative and innovation; humanistic aesthetics; international specialization, and aims to cultivate professional and technical talents with the capabilities to implement, compete and influence while meeting future challenges with sustainable mindsets and global mobility. In 2024, YCVS established the Department of Distribution Management, hoping to integrate the manpower and resources with the retail and distribution establishments under Far Eastern Group. The aim is to promote the industry-academia program and help students gain insight and real-world experience in the distribution industry through school education, special projects, career visits and internships. YCVS invites industry experts to share their field experience to strengthen technical capabilities for the young talents, helping them hone skills essential for employability and industry development for them to flourish into the pillars of corporations.



Multi-Faceted Competitiveness for Students at Yu Chang Vocational High School

To incubate global talents, Far Eastern Group and Yuan Ze University (YZU) established the Industrial Academy and International Academy in 2022. The training programs and special projects at Industrial Academy are tailored to provide corporate solutions. With both corporate and academic members on the faculty team, the program reduces the skills gap, matching the right employer with the right student, and the right talent with the right corporation.



Corporate Academy by YZU and FENC

FENC collaborated with YZU on the university social responsibility (USR) program. Staff from the R&D unit gave presentations on the development of FENC’s recycling technology and innovative low-carbon products. The students learned about the actual products in the product showroom, which deepened their impressions of the products and design concept. A total of 266 students participated in the program.

YZU has been providing significant support to corporations to address the challenges posed by carbon emissions. The post-baccalaureate program for Carbon Zero Sustainable Development, a new degree program from the university, provides one-on-one coaching on subjects such as the carbon exchange and carbon neutrality. The College of Management and Office of Research and Department also co-founded the Low Carbon and Smart Counseling Team to help corporations conduct GHG inventory. The team incorporates smart diagnosis to provide recommendations in terms of strategizing for carbon reduction. In September 2023, the program obtained certification from the Industrial Development Bureau of the Ministry of Economic Affairs as a counseling team, which led to industry-academia partnerships commissioned by multiple corporations.

Shining International Spotlight Onto Taiwan With International Competitions: Taiwan Young Student Physicists’ Tournament

To build a solid foundation in science education among young students, Y. Z. Hsu Science and Technology Memorial Foundation started the Y. Z. Hsu Competition-Taiwan Young Student Physicists’ Tournament in 2009 with the Department of Physics, National Taiwan Normal University. The competition is open to high school student teams around the nation. Students who perform well during the competition will be recruited to the national team, which will train with professors from National Taiwan Normal University and compete in the International Young Physicists’ Tournament (IYPT).

The twelve questions for contestants of the Taiwan Young Student Physicists’ Tournament are selected from the 17 questions published by IYPT. The tournament attracts students from top high schools each year. They conduct experiments or simulations based on each question; report and debate over their findings with other contestants during the tournament. The 15th Taiwan Young Student Physicists’ Tournament (TYPT) was held in 2023. More than 50 schools have participated over the years, including Taipei Municipal Chien Kuo High School, Taipei First Girls High School and Affiliated Senior High School of National Taiwan Normal University. A total of 2,112 students have competed in the tournament and awarded NT\$14.67 million in prizes. Since 2010, Y. Z. Hsu Science and Technology Memorial Foundation has been sponsoring food, accommodation and transportation for the IYPT national team members. The students were exceptional, winning 1 gold, 6 silver and 6 bronze medals.

The influence of the Taiwan Young Student Physicists’ Tournament (TYPT) is far-reaching. The tournament prompted the establishment of physicist’s clubs in Taipei Municipal Jianguo High School and Kaohsiung Municipal Kaohsiung Senior High School. The questions given during the tournament are also taught during the physics courses.



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At the National Taiwan Normal University, Taipei American School, National Changhua Girl's Senior High School and Mingdao High School. Starting in 2014, the National Taiwan Normal University has been offering speculative physics, which discusses questions from the International Young Physicists' Tournament (IYPT) during a current year. The instructors guide students to navigate through the thought process of inference, speculation and research. Many science programs in Taiwan also started referencing the physics materials referenced during IYPT, such as the national competition for innovative science teaching aids; physics tournaments for high schools and colleges; national competitions for high school physics inquiry and practice; national and regional science fairs.

The K-12 Education Administration of Ministry of Education recognizes that TYPT as well as the International Young Physicists' Tournament (IYPT) national team training and competition plan improves science competency among high school students, expands their world view and boost their competitiveness. Since 2023, the K-12 Education Administration has assumed the role of project advisor, encouraging the students and faculty members winning IYPT medals with certificates of recognition. The official recognition from K-12 Education Administration is beneficial in terms of cultivating talents in scientific research for the long term. It also attracts more top-performing students to compete, accumulating the momentum for scientific and technological innovation for the society.

Inspiring Next Generation Talents to Embrace Emerging Fields With Platform of Exchange: Y. Z. Hsu Innovation Forum

Y. Z. Hsu Science and Technology Memorial Foundation hosted the first Y. Z. Hsu Innovation Forum in 2013 to encourage youth to enter the field of science and technology and create a new future for the next generation. In 2023, five more Y. Z. Hsu Innovation Forum were held. FENC brought the forum to senior high schools, including Taipei First Girls High School, The Affiliated Senior High School of National Taiwan Normal University, Taipei Municipal Zhongshan Girls High School, Taipei Municipal Song-Shan Senior High School and National Experiment High School At Hsinchu Science Park. This arrangement gives high school students exposure to diverse technological fields. Winners of Y. Z. Hsu Science Award are invited as speakers and panelists to share their experience and legacy, inspiring young students to embrace emerging technological industries. Based on the satisfaction survey, the satisfaction rate reached 91%.

15th TYPT – Feedback from IYPT Taiwan Team Members



Xing-Yi Lai (second left) represented Taiwan in the 2016 IYPT and won the team gold medal, the first gold for Taiwan in this event.

Xing-Yi Lai

- 2016 IYPT Taiwan team member
- A graduate from Concordia High School, and currently a PhD candidate in Physics at the University of California, Davis, U.S.

Finding the mission in life from the best in theoretical research

Xing-Yi Lai represented Taiwan in the 2016 IYPT held in Russia. The team won the gold medal, the first gold ever for team Taiwan. To Lai, the questions from the IYPT are challenging. Though they are designed for high school students, the theoretical basis is cutting edge, which pushes the level of difficulty to the college level or even that of research institutes.

During training, Lai spent time with many college professors, which gave him the opportunities to learn about research in physics at the professor and PhD levels. He also found his career aspirations through IYPT, and decided to become a physics professor.



Zong-Lin Xie (second right) was the member of the first team representing Taiwan in IYPT. He attended the 2010 IYPT held in Austria and won the team silver medal during the event.

Zong-Lin Xie

- 2016 IYPT Taiwan team member
- A graduate from Taipei Municipal Chien Kuo High School, and currently a postdoctoral fellow at the National Oceanic and Atmospheric Administration, U.S.

Entering research frontiers with limitless possibilities

Zong-Lin Xie, who is currently a postdoctoral fellow at the National Oceanic and Atmospheric Administration in the U.S., is pursuing his passion in physics and computer. His work involves software development that simulates changes in weather patterns, which are critical to predicting the climate change. As he looked back to his IYPT experience, he believed that with an open-ended physics problem, one can always identify the key question, and therefore, it is critical to ask the right question. In addition to thinking critically, students should learn to listen carefully to others' research statements. The training and experience enabled Xie to develop the fundamental research skills before entering college, such as programming, data analysis, presentations and raising questions, which paved the way for his journey in academic research.

When thinking about life in high school, Xie said that he might not remember his classes or test scores, but he would always remember the days of working intensely with his teammates towards a common goal. TYPT was the perfect outlet for his youthful passion.



During the 2014 IYPT held in England, Zhong-Jun Xie (second right, front row) was the Taiwan team captain, and won the team silver medal for Taiwan.

Zhong-Jun Xie

- 2014 IYPT Taiwan team member
- A graduate from Kaohsiung Municipal Senior High School, currently a doctoral candidate in Physics at the University of Maryland, U.S.

Capturing the spirit of science and the courage to pursue the truth

Zhong-Jun Xie is currently working on quantum simulation for his research on nuclear physics. When recalling the TYPT memory from high school, he couldn't help but getting excited. He served as the councilor for team Bulgaria when Taiwan hosted the 2013 IYPT and took care of the foreign contestants during the tournament. During the 2014 IYPT held in England, he was the captain of team Taiwan, and took home the team silver medal. Physics tournaments were a major part of Xie's high school life. "I truly, truly love this tournament."

An international tournament is a chance to observe contestants of the same age from different countries. For instance, team Singapore, which often dominated the tournaments, combined experiments and theories with perfection, and team Slovak Republic treated research with professional prudence and rigor. Xie was greatly impressed with both teams.

Xie learned that the success of science lies in the use of reasonable error-finding approaches to eliminate erroneous hypotheses and arrive at the accurate conclusion. He remembered this from chap 1 of the science of biology in junior high school. In Taiwan, however, hands-on experience is rarely incorporated into the junior high and high school education. TYPT and IYPT have perfectly exemplified the science education.

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7 Appendix

2023 Results of Y. Z. Hsu Innovation Forum

Session	Taipei First Girls High School	Affiliated Senior High School of National Taiwan Normal University/Taipei Municipal Zhongshan Girls High School/Taipei Municipal Song-Shan Senior High School	National Experimental High School at Hsinchu Science Park
Speaker	Wanjiun Liao, Chair Professor Department of Electrical Engineering, National Taiwan University The 12th Y. Z. Hsu Science Chair Professor – Information and Communication Science and Technology	Nae-Lih Wu, Distinguished Professor Department of Chemical Engineering, National Taiwan University The 18th Y. Z. Hsu Science Chair Professor – Green Technology	Hsuan-Yi, Huang, Distinguished Professor Department of Chemistry, National Tsing Hua University The 19th Y. Z. Hsu Science Chair Professor – Nano Science and Technology
Influence	A total of 609 participants attended the five lectures on site, which received a 91% satisfaction rating overall. The program videos accumulated 18,000 views and the website impressions reached approximately one million times.		



Forum in National Experiment High School at Hsinchu Science Park

Coverage of 2023 Y. Z. Hsu Innovation Forum (Chinese)

Video footage of 2023 Y. Z. Hsu Innovation Forum (Chinese)

5.2.3 Industry Evolution

Encouraging Academia to Accelerate Technological Research, Development and Innovation: Y.Z. Hsu Science Award

Far Eastern Y. Z. Hsu Science and Technology Memorial Foundation is founded on the mission to promote “technology and innovation.” Since 2002, the foundation has been presenting Y. Z. Hsu Science Award to encourage academia for dedication to innovative research and development in the technological fields. The foundation consistently exerts efforts and resources into the cause, making Y. Z. Hsu Science Award one of the most prominent awards in scientific research in Taiwan. As this award marches into its 21st year in 2023, it is now one of the most significant technology awards in Taiwan and the number of applications reached 238. Over 2228 scholars and experts participated in the peer review and chose 26 winners for Science Chair Professor, Science Paper Award, Yuan Ze Chair Professor and Outstanding Professor Award. Among them, winners of Y. Z. Hsu Science Chair Professor received NT\$11.4 million. Over the 21 years of the award history, 467 awards have been presented with NT\$190 million in prize money, which is a remarkable record.



Chairman Douglas Tong Hsu with winners of the 21st Y. Z. Hsu Science Award

After devoting decades of effort and resources, the Y. Z. Hsu Science Chair is now one of the prominent science awards in Taiwan. Among past awardees, many went on to become the academicians of Academia Sinica, the most prestigious honor in the academic field, including academicians Lih-Juann Chen, Chung-Yuan Mou, Shie-Ming Peng, Li-Chyong Chen, Pan-Chyr Yang, Huey-Kang Sytwu, Soo-Chen Cheng, Ann-Shyn Chiang and Chien-Hong Cheng.

5.2.4 Social Development

FAR EASTERN Y.Z.HSU FOUNDATION (Chinese)

Nearly half a century had passed since the founding of Far Eastern Memorial Foundation. In recent years, the foundation has been sponsoring a multitude of arts and cultural events and organizations, including Far Eastern International Forum for Architecture, children's vision care campaigns, Ming Hwa Yuan Arts and Cultural Group, Rhong-Shing Chorus, Asian Cultural Council and the Little Yellow Cap campaign for promoting vulnerable individual protection services (VIPS). The foundation also funded Confucius-Mencius Society of the R.O.C., publishing Confucius-Mencius Monthly and editing Confucius-Mencius Journal. Such support has provided ample resources for more arts and cultural organizations to flourish and release the infinite power of art. The investments made by the foundation over the last four years had reached nearly NT\$160 million, and the 2023 highlights are as follows:

Interdisciplinary Dialogue to Create Livable, Inclusive and Sustainable Environment: Far Eastern International Forum for Architecture

In 2023, Far Eastern Memorial Foundation hosted Far Eastern Humanities and Arts Forum, and invited Japanese artist Ikuko Sakawaki and Taiwanese artist Shen Zhen, who is also the chairman of Art Society of China, to engage in a dialogue on Chinese and Japanese art through their perspectives. The dialogue was accompanied by a demonstration by the artists and guqin performance, bringing a magnificent cultural feast to nearly 300 audience members.



Lucia Tung (center), CEO of Far Eastern Memorial Foundation, with artists Ikuko Sakawaki (left) and Zhen Shen (right)

Far Eastern Humanities and Arts Forum / Dialogue between Ikuko Sakawaki and Zhen Shen on Chinese and Japanese Art (Chinese)

2023 Far Eastern Architectural Design Award – Rediscovering Dadaocheng

The first Historic Tour Month was held in August 2022 and received wide acclaims. The program returned with 16 tours planned for April 2023, and all were fully booked shortly after the registration began. Nearly 600 participants attended the tours, which were held in Dadaocheng, a significant trading port in northern Taiwan during the late Qing dynasty. The tours were led by Professor Chien-Lang Lee, Professor Emeritus Tsung-Hsien Chou, Professor Ching-Chih Lee and expert Charles Lin. They walked with the participants, who appreciated history, architecture and culture along the streets of the most charming historic district in Taipei, listening to untold stories and taking in the splendor of Dadaocheng with each step. As they tasted the elegant tea and refreshments, they were also savoring the local culture through the architecture and history.



Far Eastern Architectural Design Award – Historic Tour II / Historic Building Tours With Experts (Chinese)

Urban Detective Ching-Chih Lee on Historic Buildings of Dadaocheng (Chinese)

Website of Far Eastern International Forum for Architecture (Chinese)