

G.3.2 Academia-Industry Consortium for Science Park in Hsinchu Taiwan

HSP is surrounded by top academic and research institutions, including National Yang Ming Chiao Tung University, Tsinghua University, Industrial Technology Research Institute (ITRI) and National Synchrotron Radiation Research Center (NSRRC). These diversified external resources can provide HSP with abundant human resources, on-the-job trainings, industrial experiences, incubation services and R&D energy to promote the industrial development and innovation of HSP and the surrounding counties besides bringing the cluster effect to drive the transformation of national industries.

NSTC (former Ministry of Science and Technology) and HSPB, together with ASIP, universities, research institutes, government agencies, enterprises and other relevant units in the northern region, form Academia-Industry Consortium for Science Park in Hsinchu Taiwan, which is dedicated to the networking among industry, government, academia and research sectors as well as to discuss on the park's development profile, industrial development policies and industry-academia partnership system, so as to enhance their collaboration through exchange of opinions among leaders. This helps in leading the economic development of Northern Taiwan to converge with the international community. The association also organizes technical forums, industrial trend and technical seminars, industry-government-academia-research exchange meetings as well as training courses, in order to perform technology exchange and matchmaking while jointly promoting industry upgradation to achieve government's industrial development strategy of Connecting to the Place, Linking the Future, Linking the World.

Smart Transportation Innovative Technology Forum

Smart transportation is one of the important parts of our digital nation development plan and also the application of digital program innovations. Intelligent transportation and smart mobility have become emerging issues of concern for all countries. The main purpose of smart transportation is to reduce traffic congestion, improve traffic control through the coordinated operation of the Internet of Vehicles (IoV) formed through vehicle telematics, cloud computing and high-end big data processing, so as to provide users with a more convenient, safer, smoother and more eco-friendly smart transportation service.

Three speakers were invited to present in this forum, namely Director of Hsinchu City Government Department of Transportation, Ni Mao-rong, President of Taiwan Telematics Industry Association (TTIA), Men-Feng Wu and former Chairman of CECI Engineering Consultants, Inc., Taiwan, Prof. Hsun-Jung Cho. Through the presentation and comprehensive discussion of three major topics: performance of the cooperation platform between Hsinchu County and Hsinchu Science Park, application and development trend of telematics industry in Taiwan, and application of AI technology in intelligent transportation, more strategies for smart transportation and solutions for urban transportation problems are to be proposed.



Group photo of honored guests at the Forum on Smart and Innovative Transportation Technologies

Interdisciplinary Innovation Technology Forum - AI Empowerment x Smart Transportation

Along with evolution of era and rapid development of technology, big data and AI technologies have been widely applied to traffic management mode, so as to solve the existing problems through smart solutions and improve operational efficiency. Many cities around the world have been developing, demonstrating and testing intelligent transportation projects and have further progressed to the stage of expansion and promotion.

In this era of technology, transportation is becoming increasingly diversified. Ways to integrate the latest technologies such as cloud computing, AI, big data and 5G network are the focus of this forum. Founder of Meridigen Biotech Co., Ltd., John Hsuan, Chairman and President of Elan Microelectronics Corporation, I-Hau Yeh, and President of Coretronic Corporation, Robert Hsueh were invited to the forum to share and discuss on the integration of intelligent transportation across disciplines from the perspective of smart city governance. Besides, through data linkage with smart transportation central control center, IoT can be applied in vehicles to form IoV, which serves as the backbone of intelligent transportation system together with a network of transportation centers. The future of Taiwan's electric vehicle industry is now at a critical moment.



Group photo of distinguished guests of Interdisciplinary Innovation Technology Forum - AI Empowerment x Smart Transportation

Precision Smart Nursing International Technology Exchange Forum

Due to the growing silver hair generation, smart nursing has become a trend. In order to provide the latest international technology in guiding R&D of manufacturers and academics, HSPB and Academia-Industry Consortium for Science Park held the Precision Smart Nursing International Technology Exchange Forum on October 24, 2022, with 56 participants including manufacturers, academic and research institutions, and doctors. The theme of the forum was Smart Care, in response to Taiwan's ageing society. Smart care has become a new trend in the future and a new demand in the post-pandemic era. This forum focused on ways to integrate big data into customized care services, exploring the R&D achievements of precise smart nursing for dementia, and invited professional speakers to share their insights on treatment of dementia and to exchange with the participants.

HSP manufacturers represent ICARES Medicus, Inc. and General Biologicals Corporation to share the clinical application results of intraocular lens and Covid-19 nucleic acid detection reagent respectively. This enables the participants, experts and scholars and medical professionals to have a deeper understanding of the R&D capabilities of HSP manufacturers, keeping them in track the latest national and global trends in precision health and therefore laying a stronger foundation.

This forum is expected to introduce new ideas and insights, analyze global development of precision health, learn the key international issues to increase chances of international and cross-disciplinary collaborations, therefore accelerating the industrial innovation and future layout of the park manufacturers, so as to shape precision health industry cluster in HSP.