

A man with grey hair and glasses, wearing a dark suit, white shirt, and blue patterned tie, is sitting in a red upholstered theater seat. He is smiling and has his hands clasped in front of him. The background shows rows of empty red seats.

FU JEN LIFE

SPRING 2016 ISSUE 10

Re-appointed to serve second term as President of FJCU, Professor Dr. Vincent Han-Sun Chiang anchors FJCU to the future

In the name of history:
A reflection on the past ninety years and prospects
of the 100th anniversary of FJCU



FU JEN CATHOLIC UNIVERSITY

CAMPUS

- 04 FJCU welcomes new spring semester by worshipping, praying for blessings at the beginning of the Year of the Monkey
- 05 Accredited by CPA Australia, FJCU Department of Accounting boosts its competitiveness in international market
- 06 First class of Lecture Hall: Fu Jen Academy
Students from all corners of P.R.C. meet up at FJCU

FOCUS

- 08 Re-appointed to serve second term as President of FJCU, Professor Dr. Vincent Han-Sun Chiang anchors FJCU to the future
- 14 In the name of history:
A reflection on the past ninety years and prospects of the 100th anniversary of FJCU

ABOUT COLLEGE

- 16 College of Science and Engineering
- 18 Nature Photonics publishes result of research on photology by Professor of the Department of Physics, Dr. Chien-nan Liu and his Japanese counterparts

STUDENT LIFE

- 20 FJCU joins the Lantern Festival Parade on Xinzhuang's Temple Street
- 21 Starting up a business! No problem!
No passion? Now that IS the problem!
- 22 Visiting train stations of identical names in Taiwan, Japan, FJCU students pursue and publish their dreams of trains

Publisher	Dr. Vincent Han-Sun Chiang President of Fu Jen Catholic University
Editor-in-Chief	Professor Emily Chi-Mei Wu Director of the Office Of Public Affairs
Translator	Eileen Hunghsiu Lin
Language Consultant	Father Daniel J. Bauer SVD
Editor and Graphic designer	Chi-Shu Huang

Campus

Fu Jen Catholic University, No. 510 Zhongzheng Rd.,
Xinzhuang Dist., New Taipei City, 24205 Taiwan (R.O.C.)
Phone: +886-2-2905-2000

www.fju.edu.tw
pubwww@mail.fju.edu.tw



PROFESSOR DR. VINCENT HAN-SUN CHIANG

PRESIDENT OF FJCU

What an honor to witness the growth of Fu Jen University with you all. Together, we have witnessed two valuable moments in the history of FJCU—the commencement of the construction of FJCU Hospital and the reconstruction and renovation of De-Fang Building of the College of Foreign Languages. In addition to that, FJCU can be grateful for quite a few achievements. For instance, the College of Medicine is now accredited by TMAC (Taiwan Medical Accreditation Council), the College of Management by AACSB (Association to Advance Collegiate Schools of Business), and the College of Science and Engineering by IEET (Institute for Ethics and Emerging Technologies). Furthermore, a number of inter-disciplinary programs have been designed and launched for students to gain a diversified learning experience. Last but not least, FJCU successfully obtained the right to organize the National Intercollegiate Athletic Games in 2015. FJCU was also ranked sixth in the sports competition. What a remarkable achievement in the field of physical exercise for FJCU!

Today marks the ninetieth anniversary of Fu Jen Catholic University. FJCU has been ranked as Taiwan's third best university with its comprehensive colleges and departments. Currently, FJCU is affiliated with 352 sister schools. Moreover, FJCU has been chosen as employers' favorite private university in a survey conducted by 1111, an online human resource company in Taiwan. Despite all these honors, FJCU spares no effort in promoting projects both on campus and overseas. FJCU Hospital is expected to come to full operation in 2017. New teaching-based buildings and dormitories will be completed in the near future, too. FJCU Hospital will bring in resources and income for the betterment of school facilities, the upgrade of software across our campus, and the promotion of international cooperation. Overall speaking, FJCU Hospital will serve as the driving force to lead the university and support our hoped-for rise in the world rankings. All of this is not only a common aspiration of FJCU staff, faculty, students and alumni, but also the mission of my next term in the four years to come.

MESSAGE OF THE PRESIDENT

To our sister schools and friends from the industries, I would like to express my heart-felt appreciation for your kind words and best wishes on FJCU's ninetieth anniversary. Returning your friendship is this new publication of *Fu Jen Life* that delivers greetings to all our friends from afar.



FJCU welcomes new spring semester by worshipping, praying for blessings at the beginning of the Year of the Monkey

BY LU HONG-ZHEN (盧虹秦)

CAMPUS REPORTER, OFFICE OF PUBLIC AFFAIRS, FJCU

The Office of Human Resources organized an activity in the Immaculate Heart Chapel (Jing xin tang 淨心堂) on Feb. 16, 2016, immediately after the Chinese New Year holiday. The activity aimed to give staff and faculty an opportunity to socialize and at the same time to worship God, and express appreciation for their ancestors as well. The activity, a combination of Catholic ritual and traditional Chinese veneration, was profound in meaning. It ended with a lively and warm New Year's lottery.

The ritual began with a Mass led by Rev. John Shou-Chung Lai, TDD, who read the Word of God aloud. Rev. Lai also presented flowers, fruit and wine as tokens of reverence, to express appreciation and pray to the Lord for a peaceful and joyful year ahead. 2015 was an eventful year. FJCU Catholics dedicated prayer for countries around the world, newly elected governments, and earthquake victims in southern Taiwan, as well as students, staff, and faculty at FJCU. Following the ceremony was the veneration of ancestors. Dr. Chiang, president of FJCU, represented the entire university to present flowers, fruit and wine to express appreciation to our ancestors. Lastly, priests, university officials and staff and faculty members greeted one another with good wishes and auspicious words for a prosperous and peaceful year of 2016.

Before the exciting lottery, Dr. Chiang led the FJCU staff and faculty to pray for the earthquake victims in southern Taiwan. He urged everyone not to forget the misery of the victims during the time of the New Year, and encouraged all to devote one day of their daily income to the Catholic Relief Services of the Diocese of Tainan. The crowd responded to Dr. Chiang's words with positive applause.

The lottery this year presented gifts of great diversity, including an iPhone 6S, provided by Dr. Chiang as the first prize, round-trip tickets between Taipei and neighboring Asian cities, digital cameras, bicycles, electronic appliances, round-trip HSR tickets, and red envelopes containing up to 8000 NTD. Each staff and faculty member wanted to get a present as a lucky symbol at the beginning of the year. With each prize drawn, the crowd showed excitement.

Aside from the university itself, other parties also contributed to the presents and red envelopes for FJCU's New Year Lottery. For instance, Chateau de Chine in Xinzhuang, the post office in Sanchong, McDonald's, San Chung Bus Co. Ltd., Xinzhuang District Office, Taishan District Office, Chang Hwa Bank, etc. also sponsored presents and red envelopes for the drawing. Also on the list of contributors were Chen Hsiao Chuan (陳曉娟), president of Fu Jen Catholic University's Worldwide Alumni Association, and Charles C.Y. Chen (陳致遠), president of Fu Jen Catholic University's Alumni Association. It is worth mentioning that Yang Jin-shu (楊金樹), CEO of San Chung Bus Co. Ltd., along with his team members also participated in drawing lot winners. On this joyful occasion, everyone celebrated the advent of the Year of the Monkey, and demonstrated the passion, unity and energy of the FJCU community. ☺

ACCREDITED BY CPA AUSTRALIA, FJCU DEPARTMENT OF ACCOUNTING BOOSTS ITS COMPETITIVENESS IN INTERNATIONAL MARKET

The Department of Accounting at Fu Jen Catholic University was recently accredited by CPA Australia. The accreditation ceremony was held on the FJCU campus on January 20th, 2016. Dr. Pei-Gi Shu (許培基), dean of the College of Management, Dr. Mei-juh Huang (黃美祝), chair of the Department of Accounting, and Jeff Hughes, Chief Operating Officer of CPA Australia attended the unveiling of the plaque ceremony. Witnessing this milestone and ceremony were the faculty and students of the department and Ms. Deborah Leung (梁煥芹), general manager of CPA Australia Greater China.

Dr. Shu stated in his opening remarks that the College of Management is the first college in Greater China accredited by the AACSB (the Association to Advance Collegiate Schools of Business). He also expressed the view that the department is honored to be accredited by CPA Australia, which not only increases the competitiveness of our students, but also is an appealing factor to attract prospective students. Dr. Huang added that both CPA Australia and the Department of Accounting can work hand in hand to nurture accountants with an international competitive edge. Therefore, since both sides have achieved concrete mutual consensus, it is believed that the accreditation from CPA Australia and the collaboration between both sides will serve as another successful example of FJCU's international university industry cooperation.

Jeff Hughes took a one-day trip to Taiwan to sign the contract with the Department of Accounting. Hughes stated that CPA Australia strove to offer future business leaders a great starting point. With comprehensive and internationally accredited accounting programs, mutual collaboration is key to nurturing students as future strategic leaders with international expertise.

CPA Australia was established in 1886. It has become one of the biggest professional accounting organizations in the world. CPA Australia has more than 160,000 members worldwide and among them, more than 16,000 are in the greater China area. After the contract comes into force, students of the Department of Accounting at FJCU can directly apply for membership to CPA Australia after the completion of accredited subjects. In addition, when

registering as an accountant in Australia, FJCU accounting students are not required to take a test on six basic areas. Instead, with the completion of another six advanced professional subjects, students can obtain their internationally accredited accounting license in a timely and convenient fashion.

An accounting license registered in Australia is recognized by the Examination Yuan of the R.O.C. Therefore, obtaining an accounting license in Australia allows students to write off some of the examined accounting subjects in the examination process in Taiwan. This helps to increase students' competitiveness in employment and international mobility after graduation. In another year or two, CPA Australia will also offer two outstanding students scholarships as a token of encouragement. ●



First class of Lecture Hall: Fu Jen Academy Students from all corners of P.R.C. meet up at FJCU



To strengthen academic exchanges and cooperation between both sides of the Strait, as well as to create new values for FJCU, Professor Guanchao Feng (馮冠超), director of the School of Professional and Continuing Education, planned the first “Lecture Hall: Fu Jen Academy” workshop during the winter break in 2016. This workshop designed special programs and invited students from various Chinese universities to attend these programs at FJCU.

Fu Jen Catholic University sent out the invitation to more than eighty universities in the P.R.C., and nearly one hundred students replied right away, said Feng. These students were from universities in Beijing, Shanghai, Shenzhen, Xiamen, Chongqing, Jinan, Changsha, Guiyang, Zhengzhou, Yangzhou and Fuzhou. In the past, the School of Professional and Continuing Education organized workshops and cooperated with only one university. This workshop, however, gathered students from various Chinese cities, which posed great challenges. Transportation and logistics are an example. Airport pick-ups and send-offs required approximately 20 trips.

Fu Jen Academy was the name of Fu Jen Catholic University when it was first established in Beijing in 1923. Feng named this lecture hall Fu Jen Academy because FJCU has served as a historical platform where both Chinese and Western higher education institutes can meet and communicate. He hoped that Lecture Hall: Fu Jen Academy would bring back the glorious days of the Republic of China of the 1920s-1940s when knowledge thrived and academic freedom prospered, so as to shape the image and advance the values of FJCU.

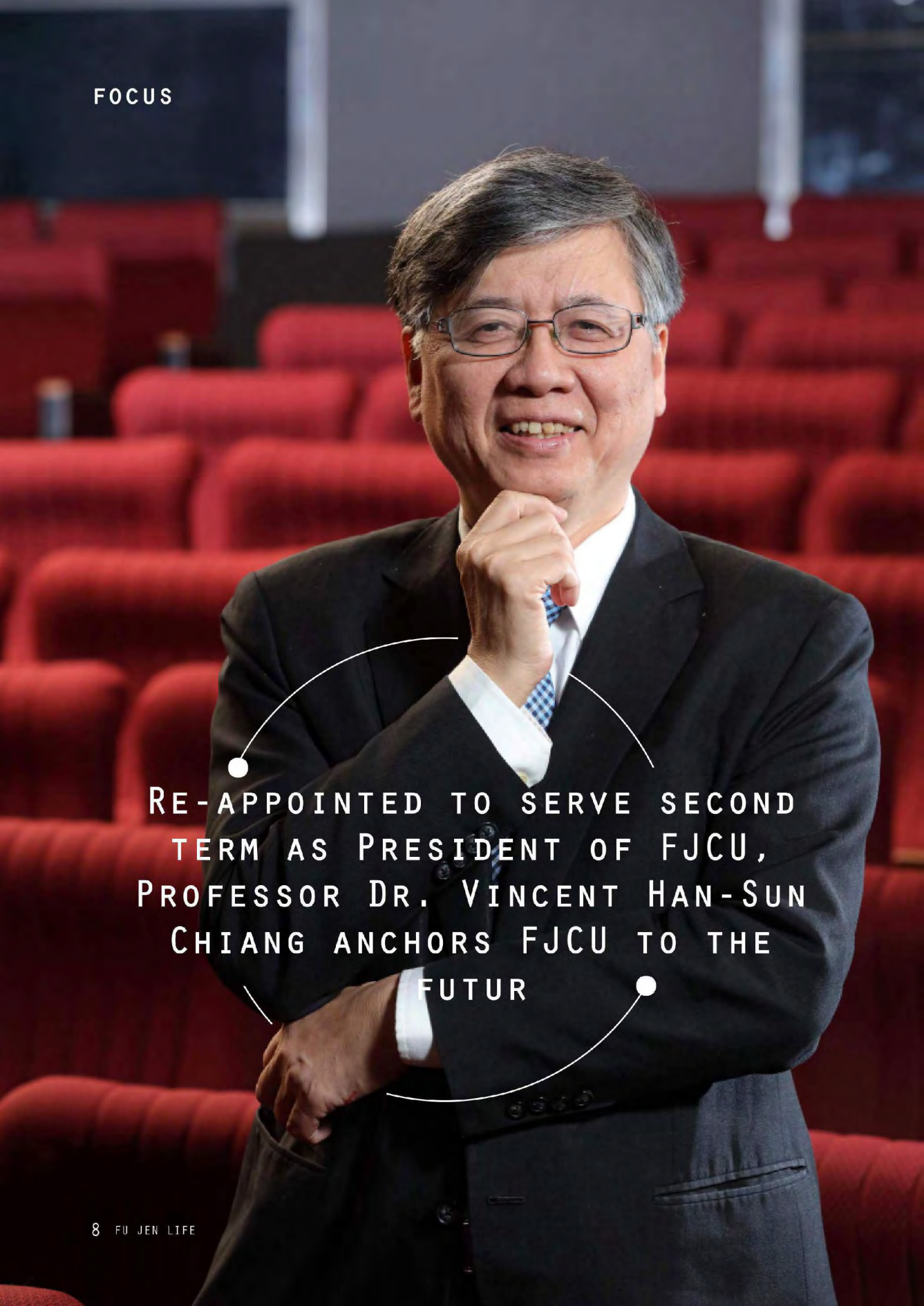
Lecture Hall: Fu Jen Academy held its orientation on January 27th in the administrative building, the Yesheng Lou, where students from Renmin University of China, Communication University of China, Central University of Finance and Economics, Beihang University, and other Chinese universities gathered together. In his opening speech, Dr. Chiang, president of FJCU, remarked that Lecture Hall: Fu Jen Academy provides a platform for a diverse learning experience for students from the P.R.C. in Taiwan. He was delighted that FJCU could be the students’ first stop in Taiwan, and hoped that their experience at FJCU provides both intellectual and cultural benefits.



Lecture Hall: Fu Jen Academy organized two workshops, “Cultural creativity in Taiwan” and “Elite business leaders,” in the winter of 2016. These workshops will be designed to accommodate more students in the summer of 2016. Students should go to the office of Hong Kong, Macao and Taiwan affairs of their universities to apply for participation. “Cultural creativity in Taiwan” was instructed by Professor Guan-chao Feng of the Department of Applied Arts, Prof. Lihao Chen (陳力豪), chair of the Bachelor Degree Program of Art and Cultural Creation, Mr. Liu Qian-chen (劉虔辰), chair of E-link Plastic & Metal Industrial Co., Ltd. and adjunct lecturer of the Department of Applied Arts, and Miss Tasi Ya-qi (蔡雅琦), director of Chinese Digital Design Creative Association. Professor Chang-lin Yang (楊長林), chair of the Department of Business Administration is one of the professors leading “Elite business leaders,” which includes programs in social enterprise, social media marketing, and business operation competition. These programs were also taught in English. Lecture Hall: Fu Jen Academy consisted of a three-day learning program and a two-day outing in the winter of 2016

Taiwan is new to most of the participating Chinese students, who are also very curious about Taiwan. Zhang Chi (張馳), a graduate student at Beihang University is an example. Zhang took a trip to Kaohsiung before the program began in Taipei. He said his first impression of Taiwan came from his Taiwanese landlord when he studied in the U.S., whereas his first impression of FJCU came from the green trees standing on campus during the winter. Zhang added that in the winter time, Beijing sees its temperature go to below zero in January, and all trees are covered with white snow.

Liu Wen-hui (劉文慧) is a grad student of Renmin University of China. This is also her first trip to Taiwan. Liu thinks Taiwan makes great efforts in conserving Chinese culture. Many of Liu’s friends already visited Taiwan before she did, and they recommended that she should visit Taiwan too. Therefore, besides studying, Liu would like to do some sightseeing as well. Liu had little knowledge about FJCU, but was very curious about what a Catholic university is like. After learning of the connection between FJCU and Beijing, she discovered her interest in FJCU and decided to visit. ㊟



RE-APPOINTED TO SERVE SECOND
TERM AS PRESIDENT OF FJCU,
PROFESSOR DR. VINCENT HAN-SUN
CHIANG ANCHORS FJCU TO THE
FUTUR

BY LU HONG-ZHEN (盧虹蓁)

CAMPUS REPORTER, OFFICE OF PUBLIC AFFAIRS, FJCU

On Feb 22, a Mass marking Dr. Vincent Han-Sun Chiang's second term as president of FJCU was held in Immaculate Heart Chapel (Jing xin tang 淨心堂). An array of distinguished guests attended this mass, congratulated Dr. Chiang and gave him their best wishes in leading FJCU towards a future of excellence. Among the honorable guests were Monsignor Paul Russell, Archbishop Peter Liu Cheng-Chung (劉振忠), chairman of the board, Mr. Thomas T.L. Wu (吳東亮), chairman of Taishin Bank and Taishin Financial Holding Co., Ltd, Mr. Charles C.Y. Chen (陳致遠), chairman of Eyon China Holding Group, Zhang Deng-jin (張登金), chairman of Sansin Builders Co., Ltd. which is responsible for the major construction of Fu Jen Catholic University Hospital, priests, university presidents and hospital directors.

The Mass took place on the Chinese Lantern Festival, also one of the four main days of prayer. Boards of directors, staff, faculty and alumni from home and abroad offered their best wishes to Dr. Chiang, who began his first term

as president of FJCU in 2012. Dr. Chiang has achieved remarkable results during the four years of his first term, including the construction of FJCU Hospital, and plans for the National Intercollegiate Athletic Games in 2015. With the principle of "respecting the Lord and loving people" in mind, Dr. Chiang truly leads FJCU by its motto, "Veritas, Bonitas, Pulchritudo, Sanctitas."

Dr. Chiang and his family presented candles, bread and wine at the ceremony as symbols of dedication to FJCU. At the ceremony, Monsignor Paul Russell read the approval letter from the Congregation for Catholic Education of the Holy See translation of which was read by Rev. John Shou-Chung Lai (賴効忠), Chaplain. Archbishop Most Rev. John Shan-chuan Hung S.V.D. (洪山川) read the appointment letter from the Holy See and Archbishop Peter Liu, Chair of the Board of Trustees read the letter of appointment. Dr. Chiang acknowledged his responsibilities and signed his name as a token of accepting the mission.





Archbishop Peter Liu expressed his expectations that Dr. Chiang, as president of FJCU, put ethics before technology and spirituality before materiality, which are the core values of FJCU and make FJCU an oasis of mercy, and a loving campus filled with holiness and goodness. In addition, Archbishop Peter Liu also asked the entire staff, faculty and students to serve and devote themselves as a team to assist Dr. Chiang in carrying out his mission as president.

Dr. Chiang promised to continue practicing servant leadership in the Catholic style and serve FJCU in a humble manner. It is worth mentioning that he has recorded an album, *Yousheng Fujen (友聲輔仁) The Joy of Music: Vincent Chiang and His Musical Friends at Fu Jen*, with the faculty of the Music Department at FJCU. This album was presented as a gift to each participating guest at the Mass. Dr. Chiang expressed his appreciation to every helping hand as he served FJCU and encouraged cross-field cooperation to achieve “Veritas, Bonitas, Pulchritudo, Sanctitas.”

“As a professor who searches for the ‘truth,’ a ‘kind’ doctor who helps people, an art-lover who seeks ‘beauty,’ and a Catholic who pursues ‘holiness’ and goodness, Dr. Chiang lives his life according to the motto of FJCU, and is thus the fittest man to lead FJCU,” said awarded alumnus

Charles C.Y. Chen. With all the challenges facing FJCU, including the low-birth rate of society, the merging of universities, and competition from across the Taiwan Strait, Chen also wished Dr. Chiang well in leading his alma mater to overcome hardships ahead.

Furthermore, Mr. Chen’s best wishes went to FJCU. As Fu Jen Catholic University Hospital will be completed within Dr. Chiang’s second term as president, FJCU will be available for expanded service, becoming a truly “comprehensive” university.

On behalf of the Association of Private Universities and Colleges, Dr. Lee Tien-Rein (李天任), president of Chinese Culture University, congratulated Dr. Chiang. Dr. Lee recognized the difficulties in serving as a university president in Taiwan, and complimented Dr. Chiang for easily overcoming difficulties in the face of various hardships. In addition, Dr. Lee also recognized Dr. Chiang’s passion in arts and sports, his good relationship with staff and faculty, and his excellent record in fighting for and obtaining resources for FJCU. It is Dr. Lee’s wish that FJCU, as a leading private university, continues as a role model for all private universities in Taiwan and working for the good of the local society. ❸

A man with glasses, wearing a dark suit and a patterned tie, is seated and playing a black grand piano. He is looking down at his hands on the keyboard. The background is a deep red, vertically pleated curtain. The lighting is soft, highlighting the man's face and the piano's keys.

DR. CHIANG EXPRESSED HIS APPRECIATION TO EVERY HELPING HAND AS HE SERVED FJCU AND ENCOURAGED CROSS-FIELD COOPERATION TO ACHIEVE "VERITAS, BONITAS, PULCHRITUDO, SANCTITAS."

天主教 輔仁大學90年史稿

1925~2015



彰顯主榮的歷程與見證

In the name of history:

A reflection on the past ninety
years and prospects of the 100th
anniversary of FJCU

BY WANG HAO-HAN (王浩瀚),
CAMPUS REPORTER, OFFICE OF PUBLIC AFFAIRS, FJCU



北平輔仁大學校舍主樓

Fu Jen Catholic University celebrated its 90th anniversary in 2015. Dr. Shih-ming Ko (克思明), dean of the College of Liberal Arts, and his writers, authored *Draft History of Fu Jen Catholic University—A Course Dedicated to the Honor and Glory of God* 《天主教輔仁大學90年史稿 1925~2015：彰顯主榮的歷程與見證》. Published by Fu Jen Catholic University Press, this is the first book featuring the history and the evolution of Fu Jen Catholic University in the past ninety years. This is also a book that serves as the foundation for the compilation of the history of FJCU for its 100th anniversary.

FJCU has nurtured numerous outstanding talents and alumni in the past ninety years. From FJCU in Beijing to its reestablishment in Taipei, our current FJCU harvests the seeds planted in the mission and vision statements drafted by early FJCU leaders. Its existing campus is an extended version of its earlier campus layout. 2011 marks the 85th anniversary of FJCU, and the 50th anniversary of FJCU's relocation to Taiwan. It was also in 2011 that Dr. Ko developed the idea of compiling the historical volume, which took three years to complete.

Collecting documents pertaining to the history of FJCU on a comprehensive scale was not an easy task. Documents were excavated not only in the School History Room of FJCU, but also in Beijing Normal University, the state of Pennsylvania, U.S.A., and the S.V.D. Generalate in Rome. Key historical materials dispersed in campus offices at home and abroad have made the collection of documents and reading and verification of the content both a lengthy and daunting task. Dr. Ko stated, "It is difficult to collect historical materials dispersed in various places, some of the pages of which were even damaged because of humidity and dampness. Meanwhile, in verifying historical content, uncorroborated evidence is always unacceptable. Additional documents as supporting evidence to cross-verify the authenticity of a given document is necessary to present the most objective history.

Draft History of FJCU consists of narratives, biographies, and chronicles. Narratives cover records of the development of Fu Jen Catholic University in both Beijing and Taiwan. Biographies contain accounts of



9. 于斌 (1901 ~ 1978)

—— 輔大在臺復校的東風就是一塊土



于斌祖籍山東，生於黑龍江。1923 年赴羅馬深造獲三個博士學位。1928 年晉鐸，1934 年任北平輔仁董事。1949 年時局丕變，去國滯美。1959 年教廷責其籌辦輔仁在臺復校並任命他為首任校長，直到 1978 年卸任。于樞機對輔大復校的艱辛學劃及奠定穩固基礎，其貢獻無庸置疑。

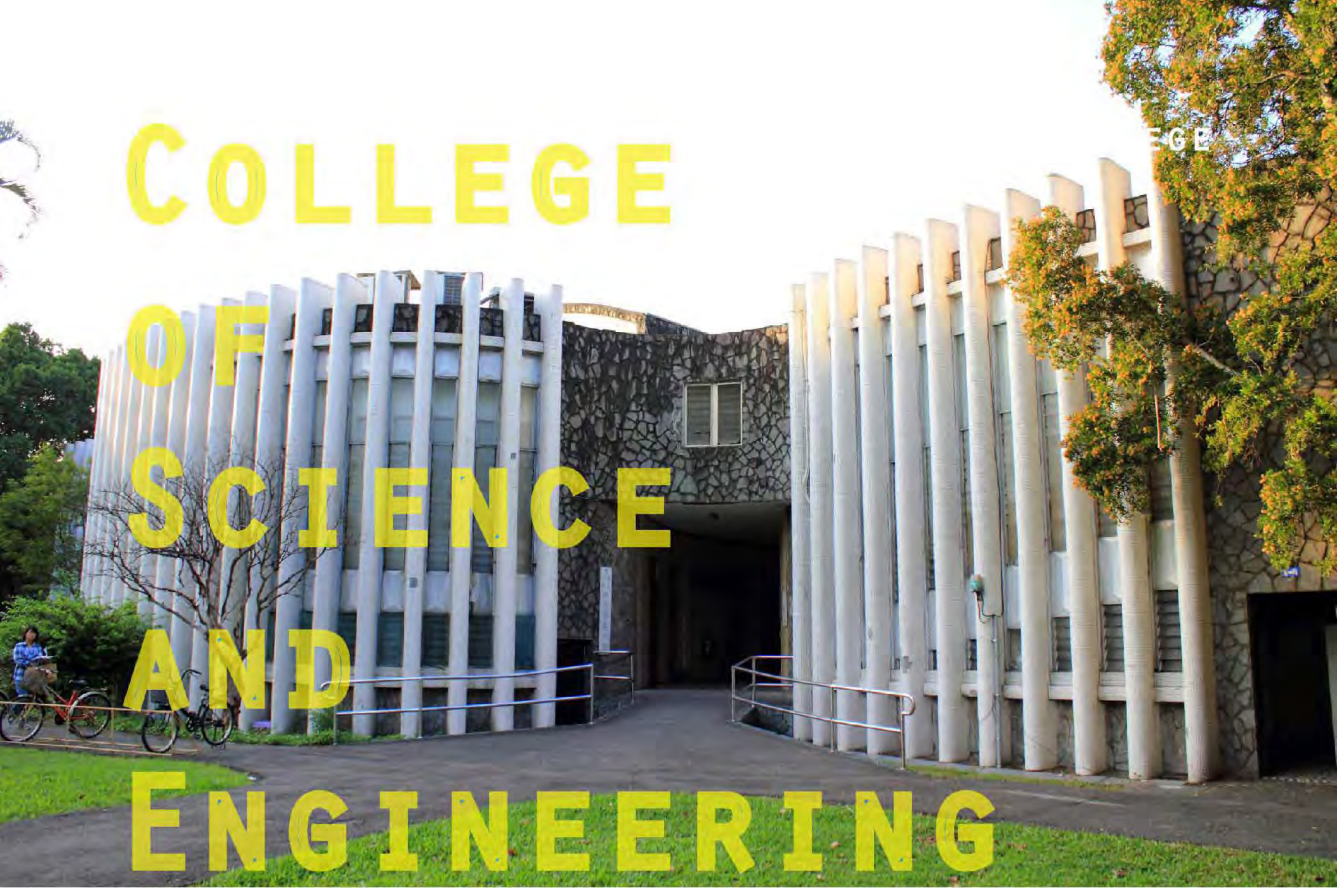


臺北輔仁大學的西式建築與鳥瞰圖 (1980 年代)

thirty priests and sisters who devoted their lives to FJCU as well as key representative figures. Their selfless devotion and contribution to lay the foundation for FJCU, and their lifetime devotion touches people. Chronicles log the stories in history in a macro and chronological manner, which makes a time-based search and observance of changes in FJCU history possible. Dr. Ko especially remarked that each of his team members in compiling biographies was deeply touched by the devotion of priests, sisters and key figures.

Compiling a historical script is a complex task. A great number of faculty and staff were involved in this project day in and day out. They either provided historical materials or assisted in the project. Among them, Father Renji Yan (嚴任吉), S.J. representative at FJCU, Sister Theresa Tu (杜金煥), director of the campus ministry center, and Father Jac Kuepers (柯博識), former representative of the S.V.D. at FJCU, provided crucial historical documents. Father Kuepers provided S.V.D. documents stored in Germany, journals and monographs. In addition, he also shared valuable first-hand literature after spending a year in Beijing Normal University, collecting documents that pertain to FJCU at its time in Beijing. Dr. Ko expressed his heart-felt appreciation to team members for their involvement, devotion and dedication to this project. Because of their efforts, Draft History of Fu Jen Catholic University—A Course Dedicated to the Honor and Glory of God completed its rich historical background.

Draft History of Fu Jen Catholic University—A Course Dedicated to the Honor and Glory of God records the transformation of FJCU in the past ninety years. However, it is a pity that the historical materials could not be as hoped for. Therefore, team members reached a consensus to categorize this work as “Draft history.” The team now faces several 10-year projects. The short-term goal is to publish the history of FJCU on the 90th anniversary. The mid-term goal is to publish “FJCU in Taiwan: the 60th anniversary” in 2021. The long-term goal is to compile “FJCU: 100 years” as a testimony to the 100 glorious years of the university. ❷



COLLEGE OF SCIENCE AND ENGINEERING

The College of Science was established when FJCU relocated to Taiwan in 1963. In 1982, the College was officially renamed as the College of Science and Engineering. The College consists of six departments, including the Department of Mathematics, the Department of Physics, the Department of Chemistry, the Department of Life Science, the Department of Electrical Engineering, and the Department of Computer Science and Information Engineering. In addition, the College also offers a program of MIIA, an independent inter-disciplinary graduate institute (Graduate Institute of Applied Science and Engineering) that also is home to a PhD program, and two research centers (Biomedical and Photonic Interdisciplinary Research Center, and Software, Internet and Multimedia Research Center). Each department has both undergraduate and graduate programs. The Department of Electrical Engineering and the Department of Computer Science and Information Engineering offer on-the-job master's programs. The Department of Chemistry offers a PhD program. The bachelor program of extension education offers bachelor's program in software engineering and digital innovation applications. Both the Department of Electrical Engineering and the Department of Computer Science and Information Engineering were accredited by

IEET (the Institute of Engineering Education Taiwan) in 2012.

Key Developments

The College values both the teaching and research performances of our faculty, who collectively present an average of more than one hundred academic journal papers or conference papers and conduct over a hundred research projects commissioned by both private and public sectors annually. Each department places equal emphasis on both theories and applications. Students of science acquire theories of basic science. Moreover, all departments attach great importance to cultivating students' abilities in reasoning and analysis, in experiments, applying theories, integrating technologies, and expressing ideas. Students of engineering receive more knowledge and further training in design, and manufacturing, as well as exploring the latest trends in technology. The College has four key areas of developments:

1. Promotion of Internationalization

- (1) English-based teaching for core professional courses
- (2) International academic cooperation and exchanges
- (3) Recruitment of outstanding students from outside of Taiwan



2. Encourage academic-industrial cooperation and increase exchanges and interactions with the industry. Our faculty is encouraged to put research results into practical usage so as to generate a seamless connection between academia and industry, and to develop new technology and create products. The college also offers practical courses that allow students to gain practical experiences in cooperating with the industry and to increase their employability.

3. Inter-disciplinary teaching and research, and integration of technologies

(1) In order to facilitate FJCU Hospital and to cooperate with the college of medicine and the college of human ecology, the college of science and engineering develops research teams to focus on medical and electronic information, and biomedical science that covers biophotonics and biomaterials.

(2) Integrate teaching faculty, facilities and research of the college to nurture interdisciplinary, well-rounded students of technology.

(3) Promote integration of departments and disciplines, set up biomedical engineering programs, and industrialized technology programs to allow university faculty to cooperate in teaching and research.

4. Advocate the establishment of the new laboratory building

(1) The laboratory meets high standards of environment, safety and sanitation.

(2) The laboratory serves for inter-disciplinary purposes, and promotes industrial development and exhibition so as to invite industries to FJCU.

Characteristics of the College

The college emphasizes professionalization and internationalization, and sets long-term goals to nurture professional talents in technology who have both humanistic qualities and macro perspectives.

(1) Professionalization: Students acquire professional, fundamental theories, apply theories, and learn how to operate scientific instruments. In addition, students learn to integrate technologies and apply them in practical scenarios.

Furthermore, university-industry cooperation offers students opportunities to apply what they learn and put it to good use.

(2) Internationalization: Open English-based courses, e.g., calculus in English, and organize English summer camps to increase students' international competitiveness and strengthen their language abilities. The College invites visiting professors from prestigious overseas universities, organizes international symposiums, and academic exchange activities to broaden students' view.

Dual Bachelor's – Master's Degree

To broaden students' international views and enhance their competitiveness, the College strives to promote internationalization. So far, the College has signed up contracts of dual bachelor's-master's degree with Georgetown University, Catholic University of America, and Temple University in the United States.

Scholarship

The College provides financially challenged students scholarships offered by the department, the university, and from Enhui Cultural and Educational Foundation. The College also offers Prof. Lugen Hua memorial scholarships and awards for students showing the most improvement. In addition, the university and the department recognize studious students with various types of scholarships. The amount of scholarships offered to students totals several million NTD every year.

Our Faculty

The College is composed of an array of highly qualified and competitive faculty who are experienced both in teaching and research. Among the 101 full-time faculty in the College, there are 3 chair professors, 1 professor emeritus, 19 professors, 51 associate professors, 25 assistant professors, and 2 lecturers.

Employment opportunities

Graduates from the College have a wide selection of possible future endeavors both in employment and higher education. On average, over 60% of our graduates are

admitted to graduate schools in Taiwan. The College has over 20,000 alumni who have performed remarkably well and obtained popular recognition in various fields, including academia, education, business and industry.

Outstanding Performances

Almost each faculty is commissioned with projects from Ministry of Science and Technology (former National Science Council) and academic-industrial collaboration projects. The College receives off-campus subsidies on the average of more than 80 million NTD per year. With regard to research, the College sees fruitful research results in the past few years, with around 125 journal papers published annually.

Visions and Prospects

The College of Science and Engineering follows the educational spirit of “standing strong on both teaching and researching, and placing emphasis on practicality.” Our excellent and dedicated faculty provides students with solid and professional knowledge in simple ways. Such teaching methods have helped numerous students to achieve exceptional professional results in their respective fields, which in turn, facilitates a holistic development for society and the improvement of the well-being of people. 🌐

Nature Photonics publishes result of research on photology by Professor of the Department of Physics, Dr. Chien-nan Liu and his Japanese counterparts

YOU WEN (尤文), CAMPUS REPORTER, OFFICE
OF PUBLIC AFFAIRS, FJCU

Dr. Chiennan Liu (劉建楠), associate professor and chair of Department of Physics of FJCU, recently conducted research on photology with his Japanese counterparts, Dr. Toru Morishita, associate professor at the University of Electro-Communications and Dr. Akiyoshi Hishikawa of Nagoya University. The result of their research was published in Nature Photonics, an influential international journal with an impact factor as high as 32.386.

Entitled “Femtosecond two-photon Rabi oscillations in excited He driven by ultrashort intense laser fields,” this collaborated study is a theory-based experiment. The experiment utilized free electron laser, highly intensive Femtosecond Laser to observe two-photon Rabi oscillations in He on a timescale as short as tens of femtoseconds. Rabi oscillation indicates the phenomenon of a quantum system oscillating between two different electronic states under the manipulation of electromagnetic waves.

The study opens a new path to precisely control the stark shift of an atom between two electronic states within 10-15 femtosecond. The procedure avoids ionizations and other nonlinear phenomenon caused by lasers, and might be applied in the manipulation of quantum information. The two different states of an atom can serve as two digits, 0 and 1, needed in quantum information. An effective manipulation of the state of an atom is a necessary condition of quantum information. This method can accurately control the state of an atom in a very short time, or before the impact from external environment takes effect, allowing atoms to be a component of quantum information that does not require low temperature.

ABOUT COLLEGE



Professor Liu has been conducting research on the interaction between light and atoms at the University of Electro-Communications every winter and summer vacation since 2004. The paper published in Nature Photonics is a result of research more than two years in the making. Professor Akiyoshi Hishikawa and his team did the experiment, and Professor Liu and Professor Toru Morishita completed calculations to reach final statistics.

In response to the paper being published in an influential international journal, Professor Liu humbly said, "It was not such a big deal." When it comes to the influence of a research, Professor Liu said, the "impact factor" of a journal could only serve as one indicator. "You cannot tell the real impact of a research project until ten years after its publication." The result of this research yields new technology, which serves as an ultrafast responsive controlling switch of the atoms. It takes time to see how this technology will be applied, Professor Liu continued, saying the publication of this paper shows that the quality of this research has met basic requirements, and was recognized. The real challenge for this research, however, lies in whether the paper makes an impact, or whether the research triggers important technology in ten years.

"As a scientist, it is my job to clarify everything," Liu remarked that every paper published in a journal has something "more than its face value that cannot be identified at first sight." Nothing satisfies researchers more than the moment when they figure things out. "But, of course, the process of figuring things out could be a very long journey."

Professor Liu also explained that research-based professors working at a private university face greater challenges than their counterparts at a national university. Teaching and administrative work aside, private university professors have relatively fewer budgets and human resources at their disposal. When asked for suggestions for colleagues at FJCU, Professor Liu stated, "I was fortunate enough to have the connections that I have had. I would not say that I could make suggestions, but I could share what I believe in. I believe everyone needs to figure out their own way to work, and carry on accordingly once they find it."

As Rome was not built in one day, the same is true with knowledge. One does not obtain the width and breadth of knowledge in one day. The success of this research is grounded on Professor Liu's personal "toolbox," the technology and theory of physics that he has relied on and continued building upon in the past decade. Therefore, Prof. Liu encouraged students of physics to build their own toolboxes. With a constant dedication to enrich toolboxes, students will be able to tackle problems in an easy manner. On the contrary, it takes longer to build a ready toolbox only when problems arise, which could cost students precious opportunities as a result. 🍵

The link to this paper

<http://www.nature.com/nphoton/journal/vaop/ncurrent/full/nphoton.2015.228.html>



FJCU joins the Lantern Festival Parade on Xinzhuang's Temple Street

BY YANG WEI-JING (楊惟敬) AND HUANG YÜ-HAN (黃昱翰), REPORTERS, FJCU NEWS

The Xinzhuang Government District Office organized a series of activities to celebrate the Chinese New Year in Xinzhuang, including the celebration of the lantern festival on Xinzhuang's Temple Street on February 22, 2016. The celebration consisted of folk activities such as riddles, zuan deng jiao, passing under major lanterns, walking through the ping'an bridge, and hong pao tai or tossing incense sticks at a firecracker box. In addition to these activities, there was also a parade organized to pray for Tainan in southern Taiwan, where a severe earthquake hit on Feb. 6. FJCU joined the activity with two lighted dragons and a medical team setting up an ambulance station in front of Ciyou Gong.

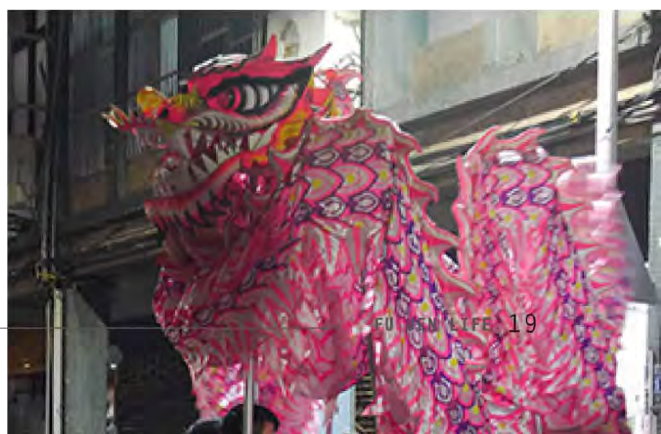
The parade started from Baoyuan Gong at seven at night, making brief stops at ancient temples, including Guangfu Gong, Ciyou gong and Wusheng Miao. A lot of old local shops located on the path of the parade provided food to the groups and individuals participating.

FJCU sent two lighted dragons to the parade. They were "healthy dragon" led by the FJCU medical team, and "energetic dragon" led by the Sport Recreation Management Program of the School of Continuing Education. Senior students of the program were responsible for the dragon dance. Yang Han-chen (楊漢琛), director of the program and leader of the dragon dance said, "Most of the students of the School of Continuing Education have

day-time jobs, which give them very little chance to explore neighborhoods near campus. This parade allows our students to know our surroundings better." Yang also stated that students had not rehearsed the dragon dance beforehand. Therefore, he invited Mr. Chen Dong-shun (陳東順), coach of the dragon dance, to offer some dragon dance tips prior to the parade.

Lin Zhe-ting (林哲廷) (a senior student of the program) headed the dragon during the dance. Living next to an old street in Xinzhuang, Lin said, "I have witnessed the rise and fall of the Temple Street and Xinzhuang night market. The parade is so large in scale that in itself it is a precious activity in this area." Li Yue-zhen (李悅貞) (a senior student of the program) held the tail of the dragon during the dragon dance. "Seeing a gigantic parade is a new experience for me," she said.

The FJCU clinic prepared an ambulance and organized a medical station in front of Ciyou Gong. Yang Shu-hui (楊淑惠), community outreach associate of the FJCU clinic, remarked, "The FJCU clinic has participated fully in the parade. Besides introducing and promoting the clinic, we also look forward to making connections with local residents and being a part of the community. In the event of any injuries, our ambulance station will help the injured." ㊦



STARTING UP A BUSINESS! NO PROBLEM! NO PASSION? NOW THAT IS THE PROBLEM!

BY LIN TING-XI (林亭熙), REPORTER



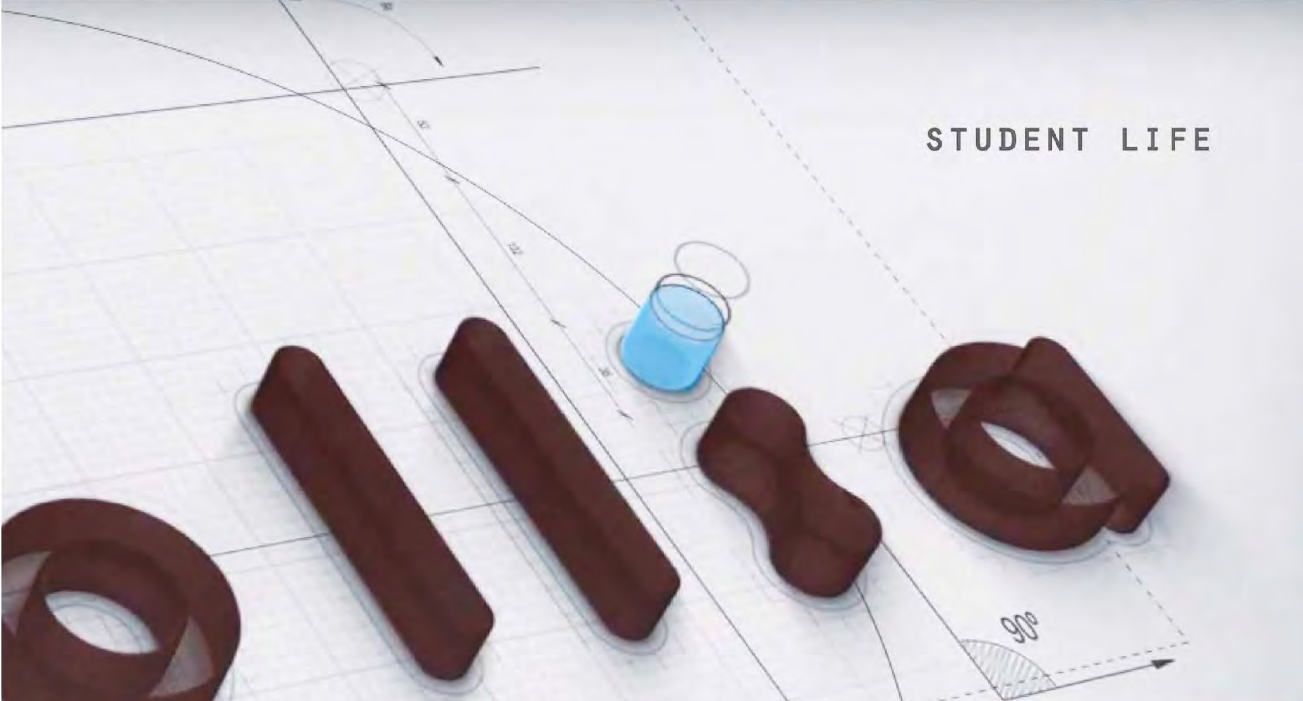
Six FJCU students co-funded Follia. Early in 2016, Longterm Smile Competition, launched by Acer, nominated Follia's work. Follia is currently stationed in the Center for Academic-Industrial Cooperation and Incubation at FJU. It is also the youngest team among all the firms stationed in the Center.

Lin Song-yu (林嵩埕) (a senior student of the Department of Applied Arts) is the CEO and leader of Follia, which also has five other members, including Chen Zi-fan (陳梓凡) (a junior of the Department of Business Administration), Peng Zheng-yi (彭鈺譚), Lin Ming-yi (林明毅), Huang Bo-jun (黃柏鈞) and Liao Geng-ya (廖耕亞) (Juniors of the Department of Computer Science and Information Engineering). Early in 2016, Longterm Smile Competition, the largest creativity competition in Taiwan, nominated Follia's work early in 2016. Follia is actively searching for interested partners, and plans to begin its trial operation in June. Follia will join the final competition in July.

Starting up one's own business is the common dream of all people. Lin Song-yu used to work for an interior design firm. Given that the market for interior design has become increasingly saturated, Lin had the idea of starting his own business. In the beginning, he was alone in carrying out this dream. Later on, like-minded friends joined him to achieve the same goal. Of course, Lin faced doubts and questions from family members. His perseverance earned nominations and the realization of his dreams. Lin said that starting a business is not difficult. The key lies in making efforts to find new ways to try. As long as one keeps trying, constant effort always opens up new opportunities.

Follia is an online virtual shopping mall featuring interior design and furniture. It attempts to change online shopping experience. With Follia, shopping online is like playing video games. Customers can see and feel the arrangement of objects in the virtual world. Moreover, customers can change the color of the object to make a more educated decision in their purchases. Follia found lower quality pictures on Chinese websites. Taiwanese websites do not present similar ideas. These are reasons why Follia decided to dive into this business.

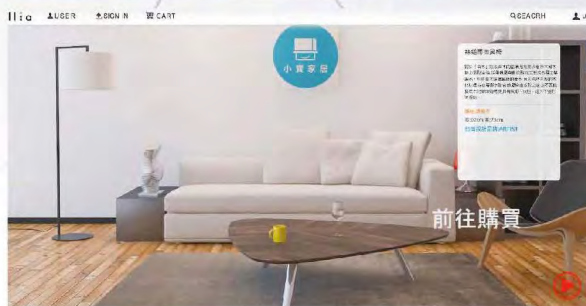
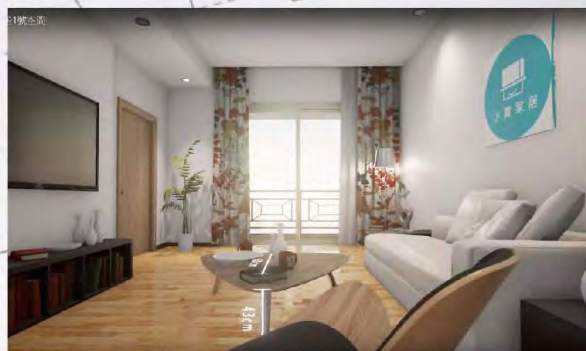
At first, members of Follia communicated on the Internet, which made instant exchanges of ideas rather difficult. By chance, the team met Han Chien-shan, director of Cooperation and Incubation has many firms that have gone



tor of the center. The Center for Academic-Industrial Han helped Follia get the opportunity for review and its opportunity at the Center. Since students do not use the Center as much as other stationed firms do, they also pay relatively less rent. Students have benefited greatly from the facilities, guidance and feedback that they receive in the Center. During the process, students were exposed to more information systems and overcame various obstacles, and have grown greatly from the experience as a result. Han said that regardless of the outcome of the competition, Follia's experience in the Center is certainly valuable.

Follia will launch its pre-marking in May or June, and is expected to officially launch online at the end of August. 

A video clip of the simulation of the online shopping mall <https://www.youtube.com/watch?v=XTA2aMtN-d4>



Visiting train stations of identical names in Taiwan, Japan, FJCU students pursue and publish their dreams of trains

BY WANG HAO-HAN (王浩瀚), CAMPUS REPORTER



Do you know that some train stations in Taiwan share the same name with Japanese counterparts? Wu Meng-zhe (吳孟哲) from the Department of French Language and Culture and Cao Shao-xin (曹少馨) from the Department of Chinese Literature visited 44 train stations during the summer vacation that share the same names in Taiwan and Japan. These two young people bravely pursued their dreams by chasing and following the trains.

This idea of chasing and following trains budded as early as two years ago. Both Wu and Cao made use of holidays during the semester to visit 34 train stations in Taiwan. Last summer, they decided to go backpacking in Japan to visit 44 train stations, realizing their dream of visiting a total of 78 train stations. The distance between Japan's southern tip, Kagoshima, and its island in the north,

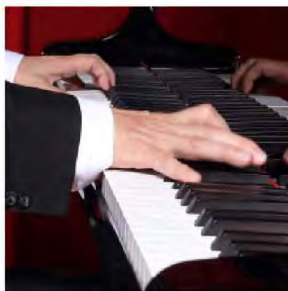
臺日同名車站

Hokkaido, is around 2300 kilometers. The great distance made it difficult for them to complete their mission in Japan in two months. Cao added, laughing, "We spent 80% of our time on trains in this trip."

To meet their goals, the students chased their trains while backpacking. They carried their backpacks, along with a snuggle Formosa black bear, to visit train stations with identical names. What's more, they wrote about the journey and planed to raise funds through Crowd-funding platforms to publish a book. The book aims to show their appreciation of the Japanese people who have given them a helping hand in their trip. In addition, Wu remarked that the book also contains historical and cultural aspects about the train stations in Taiwan and Japan, as well as anecdotes from their trip in Japan. Wu and Cao want to use this book to promote tourism between Taiwan and Japan. 🇹🇼



FU JEN LIFE



WWW.FJU.EDU.TW