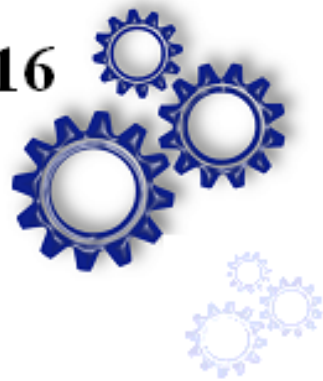




# **Annual Report on Knowledge Transfer for 2015-2016**



香港城市大學  
City University of Hong Kong

專業 創新 胸懷全球  
Professional · Creative  
For The World

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Building on the strong foundation established in the 2010-2015 5-Year Strategic Plan of the University, the Strategic Plan 2015-2020: *Making a Difference through Excellence in Research and Professional Education* provides a roadmap for the continued pursuit of distinction in six strategic areas, with research and technology transfer being identified as one of them. To successfully implement the Strategic Plan, enlarging capacity for knowledge transfer and entrepreneurship therefore plays an important role. This report outlines the knowledge transfer endeavours of the University undertaken in the fiscal year 2015-16.

## 1. Technology Licensing

Compare with the previous year, total licensing income, on cash basis, doubled from HK\$1.76m to HK\$3.85m. However, as the overall economy in Hong Kong is facing a downturn, our licensing number in 2015-16 was also affected by the sluggish market, resulting in only three licensing agreements newly signed, making the total number of active licensing agreements standing at 45 as compared to 47 last year.

The table below shows the details of the three licensing agreements newly signed.

	<b>Technologies Licensed</b>	<b>Nature of Business of Licensee</b>	<b>Where the Licensee is Based</b>
1	Power supply	Multimedia AV products	Hong Kong
2	RFID library system	Technology trading	Hong Kong
3	Nanotechnology and Surface Mechanical Attritions Treatment (“SMAT”) technology	SMAT technology	Hong Kong

## 2. Strategic Partnership with Leading Universities for Technology Transfer in the Mainland, to Expand Capacity of Innovations under Management and the Marketing Reach

Since 2014, the University has been placing increasing emphasis on establishing strategic partnership with licensing offices of leading universities abroad. Leveraging on the strengths of Hong Kong being a technology and knowledge hub between East and West, the University proactively formed strategic partnership with a number of leading universities in the US and Canada including Stanford University, University of Southern California, University of Toronto, McMaster University, Cedars-Sinai Medical Center, etc. Such partnerships enable us to pool together state-of-the-art technologies from City University as well as its partners for the vast market in the Mainland.

To expand our marketing reach for the growing innovations under CityU’s management, two technology transfer (TT) collaboration programmes, one with the Shenzhen government and the other with Yangzhou government, were successfully initiated and reported last year. We are pleased that an additional TT collaboration programme has been set up with the government of Jiangsu Province during the reporting period. A number of academics and researchers from CityU and overseas universities were arranged to present their research results and technologies to the Jiangsu government. When fully materialized, these three collaboration programmes will bring to the University a funding totalling RMB 21m to support research and development, consultancy and licensing activities, etc. Additionally, new TT collaboration programmes are under discussion in western, south-western and northern parts of China, with an aim to create a comprehensive network of TT platforms covering strategic locations of China for synergistic effect. These TT programmes are also in line with China's overall economic development as laid down in its 13th Five-Year Plan, and goes a long way to demonstrate Hong Kong’s strategic

position and its unique contribution to China's technological advancement.

### **3. Capacity Building in IP Management and Technology Transfer**

#### **3.1 IP Training for Technology Transfer Staff**

Technology transfer staff of CityU are encouraged to join various technology licensing and IP related training courses and events to keep abreast of the latest market development, IP and licensing management skills. The workshops and conferences below were attended during the year under review:

- Fireside chat with technology transfer guru, Ms Lita Nelsen from Massachusetts Institute of Technology, on *Catalyst Factors in Successful Tech Transfer : MIT's Experience* (hosted event at CityU)
- AUTM Annual Meeting organized by the Association of University Technology Manager in the US
- AUTM Asia 2016 Annual conference in Thailand
- Business of IP Asia Forum co-organized by the Hong Kong government, HKTDC and the Hong Kong Design Centre
- RISE Conference (a startups' conference in Asia)
- Annual Meeting of the Licensing Executives Society (LES) in New York City
- Licensing Executive Society International (LESi) Conference in Beijing, China
- The 14<sup>th</sup> Conference on International Exchange Professionals by the International Technology Transfer Networks (ITTN)
- Seminar on *Intellectual Property and SMEs in Guangdong and Hong Kong*

#### **3.2 Build Hong Kong's TT Leadership Position in Asia: AUTM Asia 2017 in Hong Kong**

The University also teamed up with Hong Kong Science and Technology Parks Corporation and six other local and Macau tertiary institutions to host Hong Kong's first AUTM Asia conference, to be held in April 2017. Upon winning the bid to host this prestigious conference in Asia, CityU as the chair of the AUTM Asia 2017 organizing committee is expecting to attract 800 or more international TT professionals. This conference will definitely elevate Hong Kong's position as an IP and TT hub in Asia.

#### **3.3 Exchange with Mainland and Overseas Institutions**

To facilitate our knowledge exchange on the worldwide trends of IP licensing and knowledge transfer, Knowledge Transfer Office (KTO) executives had received delegations of 11 organizations from the Mainland or overseas, during the reporting period. Through exchanges with visiting senior administrators, we learnt about the design and implementation of good practices on technology transfer and commercialization. Opportunities for mutual beneficial collaboration were also explored.

#### **3.4 Enhancements in IP Infrastructure and Management**

##### **a. Research Showcase**

The University is building a portal on the web to showcase its research strengths and results, thereby facilitating knowledge transfer as relevant information is currently scattered under different web pages that hinders browsing and searching. This project, spearheaded by the Vice-President (Research and Technology), will not only serve as a research showcase to the general public, it will also form the backbone of the future research management system of the University to replace existing system which has become obsolete. The new system will embed reporting functions to facilitate reporting to the University Grants Committee, other government bureaus and funding bodies.

b. IP Management System

A state-of-the-art comprehensive IP management system, INTEUM, has been successfully implemented to support our operational IT needs. Customization work is underway to design the various reporting formats required.

c. Revised IP Policy

To better support technology transfer and IP commercialization, the Intellectual Property Policy of the University is under constant review. Due to operational needs, minor changes to some clauses were made last year.

d. Translation of Licensing Agreement Templates

To cater for the needs of the Mainland market, bilingual version of some of the licensing agreement templates and agreements were prepared.

e. Audit on Patent Administration

As a continuous effort by the University to enhance governance and accountability, a University internal audit on patent administration was carried out from September 2015 to March 2016. The audit objectives included ensuring a proper management framework and structure were established; policies and guidelines were established and adhered to; patent assessment and application mechanism was well in place; and periodic assessment of IP portfolio was performed for guiding patent maintenance decision, etc. In general, the audit report was a favorable one with minor rectifications recommended.

## **4. Prospecting of Patentable IP**

### **4.1 Patent Prosecution**

After a stringent vetting process, inventions of high commercialization value are recommended for patent filing. In the year under review, 78 new patent applications were filed in the US, China and Hong Kong, etc. in various fields of technologies. By June 2016, 281 patents have been granted with a further 383 patents pending.

### **4.2 Applied Research and Innovation**

a. Applied Research Grant (ARG)

The University places a strong emphasis on application-oriented research that brings tangible benefits to the community. Thus the Applied Research Grant (ARG) was launched in 2005-06 to promote applied research initiatives. ARG fosters university-industry links by supporting projects with potential for application or commercialization of resulting outputs. It also supports projects which would lead to ITF applications. In the year of 2015-16, the University provided funding support for 19 ARG projects with a total grant of HK\$3.75m.

b. Knowledge Transfer (KT) Funding Scheme for Non-technology Disciplines

To broaden KT beyond science and engineering disciplines, funding has been provided since 2011 to support worthwhile KT initiatives proposed by non-science colleges, including the College of Liberal Arts and Social Sciences, College of Business and School of Law. Every year, each college holds an internal competition to prioritize the

applications before submission to Knowledge Transfer Office. Four projects were approved in this reporting year to receive up to HK\$0.2m each. They are:

- Workshops on Big Data for Computational Social Sciences
- Empowering Student, Empowering Community – Bi-directional Knowledge Transfer to Promote the Understanding on Social Issues
- Responding to Hardships with Strengths: Train the Trainer, Narrative Therapy in Action
- Establishing a Sustainability Index for Hong Kong Industries and Companies

c. Contract and Collaborative Research

Part of the University's mission is to anticipate and respond to the needs of industry, commerce and the community by engaging in applied research with its results used for direct benefit to Hong Kong and beyond. The University continues to maintain its close ties with local and overseas industries through various forms of collaboration including contract research. In the year under review, 52 contracts and collaborative research projects totaling HK\$52.7m were approved from government, industry and other organizations. Highlights of some contract research projects are development of materials or systems in a wide spectrum of disciplines as set out below:

- A Universal Microfluidic Co-culturing System for Cell-cell Interaction-based High-content Drug Screening
- Animamix Biennale 2015-16: Post PiXEL
- Provision of Study on Risk Taking Behavior of Hong Kong Construction Workers
- Smart Hospital Alert System – Patient Information System
- Transcription and Annotation of a Manuscript Diary of a Hong Kong Theatre Owner in the Pre-war Period
- Forensic Engineering of Railway Infrastructures

The University places strong emphasis on application-oriented research that not only brings true benefits to the community but facilitates knowledge transfer that is conducive to the needs of industries and social bodies. To this end, faculty members are encouraged to engage in contract and collaborative research to contribute to the University's pursuit in knowledge transfer.

## **5. Marketing of IP**

### **5.1 Direct Marketing**

a. Direct Marketing

Relationship building is an important part of CityU's strategy to promote licensing. Therefore, we sent our technology transfer officers to numerous conferences and exhibitions, as well as inland cities in China to expand their professional networks in addition to their routine visits to potential licensees. Key members of our licensing team have an average of close to 30 years of industry experience, which is greatly leveraged to build our network. We also seize every opportunity to promote our technologies. Some CityU professors and students in the fields of computer science and biotechnology attended the Committee Meeting of the Hong Kong Federation of Innovative Technologies and Manufacturing Industries to explore collaboration opportunities.

b. Exhibitions

To extend our licensing activities to the Mainland and overseas markets, the team participated in a number of exhibitions, including well-known national and international trade shows and technology expositions. The list of participated exhibitions is shown below:

- InnoCarnival organized by the Innovation and Technology Commission of HKSAR Government
- Hong Kong Electronics Fair (Autumn Edition) – Invention Zone
- Hong Kong International Medical Devices and Supplies Fair
- International CES Asia in Shanghai, PRC
- China Hi-Tech Fair in Shenzhen, PRC
- 中國成都全球創新創業交易會

c. Forums

To stimulate exchanges between our faculty and industry leaders, technology forums are organized on a regular basis. The following forums were organized during the reporting period:

- CityU Technology Transfer Forum “*Stanford’s Experience in Technology Management and Commercialization in Silicon Valley*”

We were honoured to have Ms Katharine Ku, Head of Stanford’s Office of Technology Licensing, to share with the audience from Hong Kong, Shenzhen and Jiangsu Province, PRC, about Stanford’s success in technology transfer and start-up incubation.

- Exchanges among university technology transfer professionals and industry practitioners were also encouraged. The forum “*Catalyst Factors in Successful Tech Transfer: MIT’s Experience*” was held with tech transfer guru Director of Technology Licensing Office of MIT, Ms Lita Nelsen, as the speaker.

## 5.2 Web Marketing

To broaden licensing channels, licensing databases are set up accessible on the KTO website and our partners’ websites to allow interested parties to search for University technologies available for licensing.

a. Technologies for Licensing Database

Members of the industrial and business sectors can easily access the *Technologies for Licensing* database at the KTO website to search for marketable patents, technologies and know-how of the University that match their business needs. The database is routinely updated.

b. List of Patents

A *List of Patents*, written in laymen’s terms, provides information about University patents and patent applications. The list is updated regularly, and is also available at the KTO website.

c. IP Listing

The University's IP portfolio is listed or linked in local and international IP platforms including the website of Association of University Technology Managers (AUTM), IP Net developed by the University of Manchester Intellectual Property Limited, Asia IP Exchange (AsiaIPEX), an online IP trading platform developed by HKTDC, and websites of global IP traders such as Tynax.

### 5.3 IP Agencies and Partnership

The University continues to employ both local and global IP management firms as our marketing agents.

## 6. Outreach

Through the long-standing CityU Business and Industrial Club (CUBIC), we have forged close ties with senior business executives and industrialists. CUBIC regularly organises events (e.g. Technology Transfer Forums, Emerging Technologies Forums, Special Interest Group gatherings and company visits) for its members, and build platforms for industrialists and academics from CityU and other institutions to advance technological development and promote cross-institution collaboration. Newsletters and flagship magazines of the University were also sent to the members regularly. In 2015-16, the membership of CUBIC has grown from 1,239 to 1,352, at an increase rate of 9%. The number of CUBIC members coming from the Mainland has also increased from 104 in 2014-15 to 184, increased by 77%.

During the year, CUBIC has organized a company visit to ZTE Corporation, one of the world's biggest telecommunication equipment corporation based in Shenzhen, PRC; 6 laboratory tours for Mainland government officials, local and Mainland trade associations; one technology forum, as well as one Special Interest Group gathering. CUBIC also supported nine external events in Hong Kong and Guangdong as a supporting organization. CUBIC functions effectively as a platform for forging industrial liaison and networking.

In addition, CityU has launched a CityU Outreach Programme aimed at a broader engagement of the society with our staff, under the leadership of the Provost Office. In the reporting year, two visits were organised, to the Environment Bureau and Psy Gym of Lo Wu Correctional Institution respectively and two seminars were held, on the themes of entrepreneurship and rehabilitation respectively.

## 7. Mainland Research Development

Mainland research development continued to record a steady growth in the year under review. A total of 49 new research projects were obtained via the research platform in Shenzhen, the CityU Shenzhen Research Institute (CityUSRI). Of the new projects contracted, 29 were funded by the National Natural Science Foundation of China (NSFC) while 11 were funded by the Shenzhen Science, Technology and Innovation Commission (SZSTI). The total number of active research projects jumped to 223 with a total research funding of close to RMB 131m.

	2014-15	2015-16	% change
<b>Number of active research projects</b>	202	<b>223</b>	<b>+10.4%</b>
<b>Total grants of the active research projects</b>	RMB 101.91m	<b>RMB 130.90m</b>	<b>+28.4%</b>

Seventy-five NSFC applications were submitted in the 2016 round of competition. CityUSRI's success rate for receiving NSFC funding has always been higher than that of the national average as shown below:



	2012	2013	2014	2015
<b>National NSFC success rate</b>	21%	22.5%	24.4%	22.4%
<b>CityUSRI NSFC success rate</b>	26.4%	37.4%	32.3%	35.1%

In 2015, NSFC has funded altogether 29 CityU research projects with RMB 18.23m, placing CityU firmly among the top local universities in terms of the number and total funding amount of grants received from NSFC.

Professor XUE Quan, Chair Professor in the Department of Electronic Engineering, has obtained RMB 4.5m in funding from the SZSTI for his project (立方星高頻天線研發) that aims at developing and designing multifunctional medium frequency (i.e. L/S/C/X frequency band) and high frequency antenna (i.e. microwave frequency band) for CubeSat satellites.

Dr HE Mingliang, Associate Professor in the Department of Biomedical Sciences, has also received RMB 4m in funding from the SZSTI for his project (靶標專一性抗癌新藥的研發) to develop and test a novel synthetic drug tailored to combat major cancers.

CityUSRI is among the first batch of new R&D institutions recognised by the Guangdong Provincial Government, which highlights CityUSRI's success in scientific research, technical R&D, knowledge transfer, innovation and entrepreneurship and incubation. The Institute is set to become a new type of innovative research centre that brings industry, teaching and research together for further sustainable development.

## 8. City University of Hong Kong Chengdu Research Institute (CityUCRI)

With the construction works of the CityUCRI building expected to be completed later this year, an inauguration ceremony has been scheduled for November 2016.

An additional space of 2,600 square metres has been granted by the Shuangliu Government of Chengdu in the Sichuan Province to CityUCRI for laboratory set-up. The space will be named "A+i", reflecting its use for arts and innovation as well as its mission to serve as a centre for scientific and technological research, innovation, education and culture. Initial projects planned to be housed in A+i include the following:

- *Centre for Applied Computing and Interactive Media – Chengdu (ACIM/Chengdu)* directed by Professor Jeffrey SHAW, Chair Professor of School of Creative Media
- *Centre for Innovative Applications of Virtual Reality Technologies (ViRtech Centre)* directed by Professor Horace Ho-shing IP, Vice-President (Student Affairs) & Chair Professor of Department of Computer Science

## 9. Continuing and Professional Development (CPD) Courses

The School of Continuing and Professional Education (SCOPE) delivered close to one million student contact hours with HK\$163m income in knowledge transfer activities in 2015-16. It has been one of the major providers of part-time top-up degree programs in various disciplines, including Business Management, Accounting & Finance, Hospitality & Tourism, Public Administration, English Communication, Construction Management, Information Technology and Aviation Management. In addition, SCOPE also offers continuing and professional development courses as corporate training to private and governmental organizations. It has also offered many courses through the Employees Retraining Board (ERB) platform during the year. Depending on the individual course participant's income level, he/she can obtain government subsidy to take SCOPE's ERB courses at a highly discounted fee or even for free.

SCOPE continues to partner with the School of Veterinary Medicine in developing new courses related to Veterinary Nursing and Animal Care. Further collaboration in knowledge transfer activities with other parts of the University will be explored.

## **10. High-level Consultancy Services**

City University of Hong Kong is committed to contributing its expertise to support industry, commerce and the community. To this end, the University promotes high level consultancy and professional services, and encourages its faculty members to engage in such activities for the benefit of the society as well as the University. In the year 2015-16, the University solicited 48 consultancy projects with a total contract value of HK\$3.78m.

## **11. Technology Transfer through Spin-off Companies**

As reported last year, all group companies under CityU Enterprises Limited (CityUE) had exited, so CityUE now focuses on incubating promising business ideas/ventures primarily from students and young alumni. An incubation fund under CityUE has been rolled out. It is a venture-capital-style investment fund to support CityU spinoff companies in exchange for stock ownership. Under the funding scheme, CityUE may co-invest up to HK\$2.5m in each eligible spinoff where a venture capital/angel investment fund has been obtained to lead the investment. By June 2016, one CityU spinoff has met all the criteria and the co-investment of HK\$1m has been approved.

Further to the updates provided last year, we are pleased to report more exciting news about Vitargent (International) Biotechnology Limited (Vitargent), a biotechnology startup founded by our alumna evolved from a winning proposal from an on-campus business plan competition. Further to raising HK\$1m in financing from WI Harper and clinching the Grand Prix of the 43rd Geneva International Exhibition of Inventions of Geneva in 2015, Vitargent has made great strides in scaling up by raising second round of financing from a Hong Kong real estate conglomerate Nan Fung Group, hoping to push the Company to unicorn valuation status exceeding USD 10 billion. Vitargent employs patented technology of CityU that uses transgenic medaka fish and zebrafish embryos to test for toxic substances across products from cosmetics to cooking oil. The two varieties of fish embryos can test for up to 3,000 toxicants. Vitargent plans to use the investment for research and development and expanding its overseas markets.

## **12. Inno-preneurship Ecosystem**

The conducive environment reported last year to support innovation and entrepreneurship formed the backbone of the inno-preneurship ecosystem of the University which was further evolved to include the below to enlarge capacity for entrepreneurship.

### **12.1 Funding Schemes to Provide Seamless Financial Support at all Stages of Innovation and Entrepreneurship**

To support different stages of discovery and innovation, three funding schemes are in place and a grand launching ceremony was held on 23 November 2015 to introduce to the University community and the public the complete innovation and entrepreneurial ecosystem.

- a. **(NEW) Student Early Entrepreneurship Development Scheme (SEEDS)** to support early stage idea validation, feasibility and marketing studies on a project basis. With seed funding from the University, SEEDS is supported by donation money from our alumni and friends. The first round of application was invited in the last quarter of 2015. Altogether 22 teams of students submitted their applications. Of the six teams selected, four were from

undergraduate students while two were from postgraduate students, each receiving a maximum funding of HK\$200,000. The project duration is 18 months at most.

- b. Technology Start-up Support Scheme for Universities (TSSSU, a funding scheme launched by the Innovation and Technology Commission and administered by local universities) to commercialize business ideas at pre-seed start-up stage. The 2016-17 round of application attracted 29 applications from our undergraduate and postgraduate students, alumni and faculty members. Seven start-ups were selected to receive funding support totaling HK\$4m. Of the seven grant recipients, three were new recipients. After three rounds of application, TSSSU has provided funding support to 19 start-ups with a total grant of HK\$12m for our students/alumni/faculty members to chase their entrepreneurial dreams.
- c. **(NEW)** CityUE Investment Fund, a venture-capital-style investment mechanism, to support CityU spinoff companies in exchange for stock ownership. CityU Enterprises Limited (CityUE) is a subsidiary company of the University to incubate research outputs of our staff, students and alumni. Following a lead venture capital or an angel investor, CityUE will consider co-investment of up to HK\$2.5m to each eligible spinoff. By June 2016, one CityU spinoff has met all the criteria and the co-investment of HK\$1m has been approved.

## **12.2 CityU-HKSTP Incubator Scheme**

Launched in 2016, this is a joint incubation program with Hong Kong Science and Technology Parks Corporation (HKSTP), such that teams that are incubated by the University which also possess required qualifications for the HKSTP's incubation programs, will be treated the same as HKSTP's incubatees, enjoying a full range of value added services including business development and fund raising, along with the HKSTP's financial subsidies. In addition, HKSTP's Incubation Centre at Shatin, as well as facilities at InnoCentre on Tat Chee Avenue, which are expected to be completed by mid-2016, will be made accessible by these teams, thereby enhancing our incubation capacity, where the start-up companies can grow into their maturity in a nurturing environment. Two CityU TSSSU recipients were selected to join the CityU-HKSTP Incubator Scheme, pending for final approval from respective authorities.

## **12.3 Expert Corner and Informational Club for University Entrepreneurs (iCue)**

Under Innovation Commons (IC) which is a one-stop resource centre for innovation and entrepreneurship, Expert Corner is an initiative that provides an avenue for our faculty members and students to receive consultation from lawyers or venture capitalists on entrepreneurship-related issues on a one to one basis. Users need to make prior appointment and the professional advice is tailor-made for their specific needs. Seven of such sessions were held. The Information Club for University Entrepreneurs (iCue) was founded with an aim to creating a circle community for all innovation & entrepreneurship (I&E) related folks on campus, and to keep CityU members informed of I&E activities, initiatives and strategic directions. The inaugural monthly gathering of iCue was held in August 2015 and eight gatherings of iCue were held with a total participation number of 139.

## **12.4 I&E Training and Pitching**

Training and pitching on I&E is indispensable to supporting a healthy inno-preneurship ecosystem. During the reporting period, the below training courses, talks, and pitching sessions were held:

- Talk on *Mini-VoCAL Sharing – Turning Ideas into Reality* (3 August 2015)
- Talk on *What Do You Need to be an Entrepreneur?* (2 October 2015)
- Talk on *How to Apply CCMF?* (8 October 2015)
- SEEDS and TSSSU Launch Party and Briefing Session (11 November 2015)

- Roundtable Meeting on I&E (10 December 2015)
- TSSSU 2016/17 Face-to-Face Coaching Session (18 January 2016)
- Talk on *DFest International Perspectives on Innovation and Entrepreneurship* (3 February 2016)
- 12-hour course on *Intellectual Property Law: Awareness, Protection and Commercialization* (2 to 18 March 2016)
- 12-hour course on *Patent Information Search* (12 to 21 March 2016)
- Talk on *What Do You Need to be an Entrepreneur?* (11 April 2016)
- Talk on *Cultivating Tomorrow's Digital Innovators* (28 April 2016)
- AngelHack Hong Kong 2016 – seminar and Hackathon (20-22 May 2016) (co-organized with AngelHack)

## 12.5 Entrepreneurship Library Guide

The Entrepreneurship Library Guide, developed by the University Library with feedback from the Knowledge Transfer Office, is another initiative of the University to assist students and researchers looking for information on entrepreneurship. The on-line Guide provides practical information and tips to help users get started and move through the various stages of entrepreneurship, starting from idea generation to the later stages of setting up a company and protecting ideas. The information and tips come from a variety of online sources including videos, websites and the Library's resources.

## 12.6 CityU Discovery Festival

CityU Discovery Festival is an annual event showcasing the University's strengths in discovery and innovation, the centerpiece of CityU's unique Discovery-enriched Curriculum (DEC). Held from 1-3 February 2016, the event included a Matchmaking Symposium introducing the University's innovative projects to potential investors, and an exhibition of innovative and creative works by students. The opening ceremony of the Festival also saw the presentation of awards to the winners of the "Smarter Life Aided by Robots" competition, the "My Own Discovery" contest. The awards recognized the quality of original discoveries at the University.

## 12.7 CityU Entrepreneur Week (CityU E Week)

In tandem with the Hong Kong Trade Development Council Entrepreneur Day, a CityU Entrepreneur Week was held from 17 to 27 May 2016 to keep up the momentum generated by the Entrepreneur Day and invigorate the entrepreneurship spirit on campus. The week-long event comprised a series of I&E activities including:

### a. Business Innovation Exhibition and Award Presentation

Jointly organized by the College of Business Department of Information Systems (IS), the Global Business Systems Management (GBSM) program and Innovation Commons, the exhibition was a showcase of business innovations developed by GBSM students during their double academic exchanges in Europe, North America, Australia, Asia, and the Greater China Region.

### b. 2016 CityU IP Conference for Students

Jointly organized by Hong Kong Institute of Patent Attorneys Limited (HKIPA), Student Development Services and Chow Yei Ching School of Graduate Studies, Office of Education Development and Gateway Education (EDGE) and IC, the conference introduced a new career path for students, i.e. IP attorney, in particular for science and engineering students to pursue.

c. Pitching Skills Workshop

Jointly organized by the English Language Centre, Office Education Development and Gateway Education and IC, the workshop provided useful and practical tips for making presentations to impress audience.

d. Tea Gathering for Inno-preneurs: TGIF Tea Gatherings

Jointly organized by CityU Apps Lab and IC, the tea gathering is a monthly event for I&E folks to get together for networking and mingling.

e. Mainland-Taiwan-Hong Kong Symposium on Innovation and Entrepreneurship Education 2016

Organized by the CityU Education Platform for Innovation and Entrepreneurship since 2013, the 2-day event got together I&E educators from the Mainland, Taiwan and Hong Kong for exchange and experience sharing on innovation and entrepreneurship education.

## 12.8 Knowledge Transfer Results of Students

a. IP Registration

Under Discovery-Enriched Curriculum 2.0, students' creative and innovative work continues to generate intellectual property of high commercial value, resulting in the filing of the below short-term Hong Kong patents:

Student Status	School / College	IP Title	Country Filed	Type of Registration
Undergraduate	College of Business	Knitting Holder	Hong Kong	Short-term patent
Undergraduate	College of Business	Integrated Postbox	Hong Kong	Short-term patent
Undergraduate	School of Creative Media	Wearable Canvas	Hong Kong	Short-term patent

b. External Funding for Nurturing Entrepreneurship

Cyberport and other technology support organizations in Hong Kong are managing some funding schemes to nurture young entrepreneurship. Our students have obtained the below entrepreneurship funding during 2015-16.

Fund Type	School/ College	Status	Project Title	Funding Received
Cyberport Creative Micro Fund – HKYEP	College of Science and Engineering	Graduate	SocHub	HK\$100,000

Cyberport Creative Micro Fund – HKYEP	College of Business	2014 Graduate	All In One	HK\$100,000
Cyberport Creative Micro Fund – HKYEP	College of Science and Engineering / School of Creative Media	2014 Graduate	Roundabuy	HK\$100,000
Cyberport Creative Micro Fund – Shenzhen – HK ICT YEP	College of Science and Engineering / School of Creative Media	2015 Graduate	Cenker	HK\$100,000
Cyberport Creative Micro Fund – Shenzhen – HK ICT YEP	College of Science and Engineering / School of Creative Media	2015 Graduate	Hong Kong Day	HK\$100,000
Cyberport Creative Micro Fund – Professional Stream	College of Science and Engineering	Graduate	Virtron VR /AR Education App	HK\$100,000
Cyberport Incubation Programme	College of Science and Engineering / School of Creative Media	2014 Graduate	BeVoid Limited	Up to HK\$330,000
Cyberport Incubation Programme	College of Science and Engineering	Graduate	Makeomnia Limited	Up to HK\$330,000
Cyberport Incubation Programme	College of Science and Engineering	1994 Graduate	Polljoy Limited	Up to HK\$330,000
Cyberport Incubation Programme	College of Science and Engineering	Graduate	Optimor.io (now renamed -Mindlayer)	Up to HK\$330,000
Cyberport University Partnership Programme	College of Science and Engineering	Graduate	Initial	HK\$100,000
Cyberport University Partnership Programme	College of Science and Engineering	Graduate	Optimor.io (now renamed -Mindlayer)	HK\$100,000
The Hong Kong Federation of Youth Groups Jockey Club Social Innovation Centre STartup Empowerment Programme	College of Science and Engineering / School of Creative Media	2014 Graduate / Year 3 Student	Roundabuy	HK\$50,000

c. Exhibition at Trade Show

The below start-ups/project were exhibited from 13-16 April 2016 at the HKTDC International ICT Expo, an Asia's leading ICT trade show to showcase ICT solutions to visitors from all businesses eagerly looking for the latest ICT solutions to help their businesses.

- Company name: RippleBench. Its UNI-Match App provides a cross-universities online platform for universities' members to create and promote events and expand the social network.
- Company name: ProHub. ProHub's EventCel App provides an intelligent and convenient way for companies, schools, organizations, and members of the public to manage the entire event cycle from preparation to implementation and follow-up afterwards with mobile apps. Unlike existing event management products, EventCel focuses on tasks during an event, e.g., newsfeeds, live voting, and live Q&A. It also provides pre-event and post-event management, including event registration, attendance, and analysis.
- Project: All-In-One. All-In-One provides a channel for potential insurance customers to meet hundreds of agents or brokers and then get relevant and up-to-date information.

The University also participated in the HKTDC Entrepreneur Day organized by the Hong Kong Trade Development Council from 13 to 14 May 2016. It is an annual "Start-up Fiesta" for start-ups to showcase their products and to promote their brands. The creative work of the below five start-ups were exhibited. In return, the start-up teams received valuable feedbacks from visitors and were invited for media interview.

- Air Button Technology Limited: The Company innovates simple and intelligent smart control solution for smart devices with the use of wireless technology.
- Autron Group Holdings Limited: The Company develops a channel for potential insurance customers to meet hundreds of agents or brokers for getting relevant and up-to-date information.
- MindLayer Limited: The Company offers Artificial Intelligent solution for enterprises to improve customer service efficiency using active social listening and opinion mining technology.
- NoPhish Technology Limited: Anxinsao is an anti-phishing mobile app that can detect the malicious information inside the QR code.
- ProHub Limited: The Company creates an application named EventCel for pre- and post-event management.

### **13. Recognition of Excellence in Knowledge Transfer**

To encourage knowledge transfer (KT) and nurture a KT culture in non-science disciplines, Excellence in Knowledge Transfer Awards was launched in 2011. The Awards give recognition to faculty members in the College of Liberal Arts and Social Sciences who have made outstanding achievement in applying their knowledge for creating high social impacts. The Fifth Excellence in Knowledge Transfer Awards was held in 2015-16 and the award winners were:

Project Title	Department	Recipient
<b>Excellence in Knowledge Transfer</b>		
Empowering Society with Social Innovation	Public Policy	Dr. Yanto CHANDRA
<b>Certificates of Merit</b>		
Four-episode documentary on the Independent Commission against Corruption (ICAC)	Media and Communication	Dr. Zhou HE
Data-driven Language Learning	Linguistics and Translation	Dr. John Sie Yuen LEE
Continuing Education for Offenders (CEO): A Taste of University and Rainbow Reading Award Scheme	Applied Social Sciences	Dr. John Wing-Ling TSE

## 14. Impact Cases

Highlighted below are examples of significant knowledge transfer endeavors of the University carried out during the year under review.

### 14.1 New Media Art Exhibition

To promote appreciation for Chinese art, culture and history through new media technology, based on cultural and academic exchanges between Taiwan and Hong Kong, CityU launched a first-ever collaboration with the National Palace Museum (NPM) to present the exhibitions “Rebuilding the Tong-an Ships New Media Art Exhibition (同安·潮 – 新媒體藝術展)” and “Giuseppe Castiglione – Lang Shining New Media Art Exhibition (郎世寧新媒體藝術展)”. Both events brought ancient artifacts and new technology together through the splendor of new media arts, offering visitors new experience and exemplifying the University’s School of Creative Media’s contribution to the promotion and conservation of Chinese art and heritage with its strength in creative media. The two-month exhibition of Tong-an Ships held from August to September 2015 received 12,000 local and overseas visitors while the one on Lang Shining which is still running on campus will undoubtedly achieve higher impact as over 20,000 people have already visited the exhibition within the first two months after its opening.

Tong-an Ships, large traditional sailing vessels which emerged in the middle of the Qing Dynasty, were so named because they were constructed in Tong-an County of Fujian Province. They were widely used in the private sector and utilized by pirates before finally becoming the naval mainstay of the Qing court. Employing advanced digital technologies such as holographic projection, naked-eye 3D, augmented reality, and Kinect sensor technology, three new media installations were set up, namely “Linear Navigator of Chinese Maritime History”, “Paint and Sail your Tong-an Ship”, and “Pacifying the South China Sea”, to offer an immersive and all-around viewing experience to understand the East Asian maritime culture during the 19<sup>th</sup> century and the historical elegance of the Tong-an ships.





Visitors were making personalized Tong-an Ships for themselves with the painting programme in the tablet.

“Giuseppe Castiglione – Lang Shining New Media Art Exhibition” runs from April to late August 2016. It highlights the Italian Jesuit 郎世寧 Giuseppe Castiglione’s (1688-1766) artworks and their historical context through pioneering a modern presentation of historical paintings. Castiglione, an eminent court painter, architect and art designer, spent 51 years in the Qing Empire’s palace and produced many excellent works during the reigns of Emperors Kangxi (康熙), Yongzheng (雍正) and Qianlong (乾隆). Blending European techniques with China’s traditional artistic methods, his works have opened up a new perspective on Chinese painting and won admiration in China. The exhibition’s innovative design combines historical artworks, new media and contemporary interactive art to create for the visitors an impressive multi-sensory experience. Full-size facsimiles of Castiglione’s paintings, characteristic of the East-meet-west style, are presented side by side with creative, digital interpretations of these works. Visitors are invited to shuffle in time to compare the traditional and contemporary models of representation.



Visitors are invited to re-colour horses from Castiglione’s painting in this exhibit designed by the School of Creative Media.

## 14.2 Empowering Society with Social Innovation

“Empowering Society with Social Innovation” is a winning project of the Excellence in Knowledge Transfer Award 2015-16. It arouses, informs and imparts knowledge – to young people and the general public in Hong Kong and internationally – on the role, strategies and

effects of social innovation and entrepreneurship on society. It describes the innovative knowledge transfer methodology behind several extraordinary achievements, the advocacy of social innovation and Dr Yanto Chandra's positive journalism approach to communicating to a non-academic audience on seeing the positive side of human agency as a solution to social problems.

The project draws upon the well-published principles and methods from the science of building innovative “stuffs” (lead user theory, theories of design, effectuation theory, bricolage; from innovation, entrepreneurship, design, marketing literature) combined with positive psychology, as a tool to empower human agency, and creating a community of positive deviance, and communicating them to non-academics as a form of positive journalism.

Dr Chandra carried out the project in his teaching of courses GE1218, GE1220, POL3900, Independent Study POL46100 by acting as a coach (instead of just a lecturer) to assist students to pursue their ideas well beyond what were expected in ordinary course objectives. It was also a positive result of Dr Chandra's ongoing research on social innovation and entrepreneurship. Students of this generation are “losing hope and burying dreams” in the harsh global and local economic realities – thus one viable option is to unleash what they don't realize they are capable of: imagining, believing, and knowing. Using positive psychology, students were encouraged to think beyond grades and try transforming their ideas and entering them into prestigious competitions and patent applications.

Successful outcomes count Dr Chandra's students who developed devices to help improve the life of the disabled, solved environmental issues and health-poverty issues caused by diseases (e.g. Sonus, Transfriendly, i-receipt, RedTest, among other projects) some of which won “My Own Discovery Award 2014”, “Project Flame Social Innovation Award 2015” and patent application sponsored by the University in 2015. These successes led to publicity in over a dozen newspapers and interviews with three radio stations in Hong Kong.

The project adopted advocacy and positive journalism approaches to disseminate the value of social innovation to the broader public in the form of research findings and innovative teaching approaches. This involved publishing his teaching-related and knowledge transfer approaches in journal publications, presenting them to local Student Entrepreneurship events, as well as invitations to share such knowledge at conferences in Hong Kong and internationally.

### **14.3 Apps Lab**

Apps Lab was set up in 2013 by an Electronic Engineering Associate Professor, Dr Ray Cheung, with a view to nurturing more professionals for the information technology sector and encouraging students from different majors to develop apps, thereby enhancing their interdisciplinary knowledge and skills. It is not only a training platform for mobile apps development, but also a breeding ground for entrepreneurial spirits. It serves not only the CityU community, but also the society at large as Apps Lab's free coding workshops are made available to people of different ages and from all walks of life.

Apps Lab started the “Hour of Code” Hong Kong campaign, originated in the US, since December 2014 with a view to allowing everyone a first taste of computer programming. About four to six classes of coding training are organized per month outreaching to different locations in Hong Kong to promote coding literacy. To date, over 126 coding classes have been held with an accumulated coding hours of over 16,000. The beneficiaries include primary and secondary

students and teachers in Hong Kong, children from underprivileged families, the elderly, exchange students from Mainland China and Taiwan, business executives, policemen, ambassadors/consulate-general officers and even prisoners at correctional institution. The Ambassador School Program further promotes a coding culture as the program provides support to ambassador (partner) secondary schools and primary schools for coding and IT education. Members of Apps Lab act as facilitators to help with coding workshops and coding groups in ambassador schools, plus the necessary equipment and teaching assistants. A cluster of networks is thus established that promotes synergy between CityU and secondary/primary schools. Currently, there are 26 primary and secondary schools that have joined the Ambassador School Program.

Another mission for Apps Lab is nurturing entrepreneurial spirit. Apps Lab has now a membership of close to 3,000 who are actively engaged in different apps development projects. For example, a mobile app for posture checking in collaboration with the Chiropractic Doctors' Association of Hong Kong offers free spinal screening to the general public to raise awareness of spinal health. Some projects evolved into early startups and received funding support for further development, such as the Cyberport Creative Micro Fund (CCMF). To name some examples, two Apps Lab teams were selected to join Cyberport's University Partnership Programme 2015 and were sent to Silicon Valley, US, for an entrepreneurship boot camp that ran from late September to early October 2015. Eventually, both teams received a cash award of HK\$100,000 to develop their start-up projects. One of them later joined the Cyberport Incubation Program which brought them one step further in their entrepreneurial journey.

Apps Lab empowers our youngsters with cutting-edge technologies and helps them transform their innovative ideas into realization.

#### **14.4 Alumni Startup - Air Button**

Simplicity is beauty. One cannot agree more when it comes to smartphones with increasingly complex and sophisticated built-in functions, especially to the older generation.

Air Button Technology Limited was founded by two young CityU alumni in 2014 who shared the same entrepreneurial dream. Apart from being the company name, "Air Button" is also the name of a flagship product which is in fact a small tactile, clickable one- to two-button sticker to be applied directly on the back of an Android smartphone. Through a custom app, users can personalize their own buttons to activate a workflow of features and functions with one simple click, allowing quick and easy access to their most frequently-used smartphone commands. Using passive RFID technology, Air Button is completely battery-less and wireless, making it cost-effective and environmentally friendly. This innovative gadget clinched the prestigious Good Design Award and GOOD DESIGN BEST 100 in 2015 presented by the Japan Institute for Design Promotion which has run the competition for 60 years with an aim to enriching our lives, industries and society through innovative design.

With initial funding from the Cyberport Creative Micro Fund in 2012, and subsequent funding for two consecutive years from the government-sponsored Technology Start-up Support Scheme for Universities, Air Button had a promising beginning as a young start-up. The overwhelming success in the Kickstarter campaign in Fall 2015 in which USD 22,000 was raised within one month further reflected the market potential of the business. With these early successes, there is no doubt the founders will work wholeheartedly to pursue their entrepreneurial dream. Their next

plan is to enhance the product to control a broader range of devices so that by pointing your phone to some devices, you will be able to control them.

## 15. Summary of Knowledge Transfer Performance Indicators

(Amounts are in Hong Kong dollars)

Performance Indicators	2014-15		2015-16	
No. of patents filed in the year	<sup>1</sup> 76		<sup>2</sup> 78	
No. of patents granted in the year	<sup>3</sup> 32		<sup>3</sup> 36	
No. of active licenses during the reporting year (inclusive of newly granted ones)	Type	<sup>4</sup> No.	Type	<sup>4</sup> No.
	Exclusive	<b>13</b> (2)	Exclusive	<b>12</b> (2)
	Non-exclusive	<b>34</b> (15)	Non-exclusive	<b>33</b> (15)
	Total	<b>47</b> (17)	Total	<b>45</b> (17)
Income (on cash basis) generated from intellectual property rights	<b>\$1.76m</b>		<sup>5</sup> <b>\$3.85m</b>	
Expenditure involved in generating income from intellectual property rights	<b>\$7.6m</b>		<b>\$8.02m</b>	
No. of economically active spin-off companies	<b>6</b>		<sup>6</sup> <b>4</b>	
Net income generated (or net loss arising) from spin-off companies of the University	<sup>7</sup> <b>\$2.5m</b>		<sup>8</sup> <b>N/A</b>	
No. of collaborative research projects and income thereby generated (inclusive of ongoing and new projects)	<b>33/\$21.96m</b>		<b>39/\$25.94m</b>	
No. of contract research projects (other than those included in “collaborative researches” above), and income thereby generated (inclusive of ongoing and new projects)	<b>147/\$43.17m</b>		<b>157/\$49.87m</b>	

<sup>1</sup> Adjustment has been made due to a time delay in receiving formal notification from patent offices.

<sup>2</sup> See breakdown by country and type in Appendix 1.

<sup>3</sup> See breakdown by country and type in Appendix 2.

<sup>4</sup> Figure in bracket indicates the number of licenses of IP not protected by patents.

<sup>5</sup> Part of the actual receipt of licensing income was deferred payment from last year.

<sup>6</sup> See breakdown in Appendix 3.

<sup>7</sup> Financial data of some companies cannot be obtained and is not included in the report.

<sup>8</sup> Financial data of the companies cannot be obtained.

No. of consultancies, and income thereby generated	<b>57/\$5.34m</b>	<b>48/\$3.78m</b>
No. of student contact hours in short courses or e-learning programmes specially tailored to meet business or CPD need	<sup>9</sup> <b>1.17m</b>	<sup>10</sup> <b>0.99m</b>
No. of equipment and facilities service agreements, and income thereby generated	<b>153/\$0.3m</b>	<b>119/\$0.29m</b>
Income received from Continuing Professional Development (CPD) courses	<b>\$160m</b>	<b>\$163m</b>
No. of public lectures/symposium/exhibitions and speeches to a community audience (seminars and workshops are included)	<b>665</b>	<b>867</b>
No. of performances and exhibitions of creative works by staff or students	<b>107</b>	<b>104</b>
No. of staff engaged as members of external advisory bodies including professional, industry, government, statutory or non-statutory bodies	<b>320</b>	<b>309</b>

Remarks: Student placement/internship statistics will be reported to the University Grants Committee in other exercises.

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<sup>9</sup> *Adjustment has been made after year-end.*

<sup>10</sup> *A forecast based on information as of May 2016.*

**Number of Patents Filed in the Year 2015-2016 (with breakdown by country and type following the Common Data Collection Format (CDCF))**

Country	Type	Number
Hong Kong	B01	1
	G02	1
International	C23	1
	G06	1
Japan	C22	1
The Mainland of China	A41	1
	A61	2
	B01	3
	B03	1
	C07	1
	F21	1
	G02	1
	G05	2
	G07	4
	G08	6
	G09	1
	G11	1
	H02	4
USA	A61	1
	B01	9
	B29	1
	B81	1
	B82	1
	C07	1
	C22	3
	C23	1
	G02	3
	G03	1
	G06	3
	G07	4
	G08	4
	G09	2
	H01	1
	H02	4
	H03	1
H04	4	
<b>Total</b>		<b>78</b>

**Number of Patents Granted in the Year 2015-2016 (with breakdown by country and type following the Common Data Collection Format (CDCF))**

<b>Country</b>	<b>Type</b>	<b>Number</b>
<b>Hong Kong</b>	<b>H02</b>	<b>1</b>
	<b>H05</b>	<b>1</b>
<b>The Mainland of China</b>	<b>A61</b>	<b>1</b>
	<b>B01</b>	<b>1</b>
	<b>C21</b>	<b>1</b>
	<b>G01</b>	<b>1</b>
<b>USA</b>	<b>C09</b>	<b>1</b>
	<b>C12</b>	<b>1</b>
	<b>F16</b>	<b>1</b>
	<b>G01</b>	<b>2</b>
	<b>G02</b>	<b>1</b>
	<b>G03</b>	<b>1</b>
	<b>G05</b>	<b>1</b>
	<b>G06</b>	<b>4</b>
	<b>G11</b>	<b>1</b>
	<b>H01</b>	<b>4</b>
	<b>H02</b>	<b>3</b>
	<b>H03</b>	<b>3</b>
	<b>H04</b>	<b>5</b>
	<b>H05</b>	<b>2</b>
<b>Total</b>		<b>36</b>



**Economically Active Spin-off Companies 2015-16**

<b>Type</b>	<b>Name</b>	<b>Business</b>	<b>Year of formation</b>
Bio-technology	*Vitargent (International) Biotechnology Limited	Specialize in biosensor technologies for providing testing services for food, pharmaceuticals, cosmetics and the aquatic environment	2010
Software / Solution Integration	*Hong Kong Bilingual Learning and Translation Studies Association Company Limited	Specialize in bilingual learning and translation	2013
New Materials	*Cinme Tech Limited	Development of electronic chemical sensor	2014
Software / Solution Integration	*NoPhish Technology Limited	Phishing attacks fighting	2015

Remark: \*No institutional ownership but using licensed IP only

## Knowledge Transfer in College of Business

The College of Business (CB) and its member departments have been involving in a wide range of KT activities. These KT activities typically include (i) community engagement such as delivering public lectures, media interviews, press conferences and workshops; (ii) involvement in external advisory bodies including professional, industrial and the government; and (iii) student placement and internship.

### Highlights of KT Activities of Member Departments

**Department of Accountancy** – The department’s knowledge transfer endeavors are best illustrated in their student consultancy projects making use of professional accounting and business knowledge of their staff and students to serve the community. Worth mentioning here are two examples of these projects, both were supervised by Dr Sidney Leung.

- Knowledge Transfer Social Enterprise Consultancy Project: Good Buy Platform – Social Enterprises’ Online Platform (<http://www.goodgoods.hk/zh-hant/content/goodbuy-hong-kong-chi>). This platform is funded by the Hong Kong Council of Social Service, and helps social enterprises to build networks with retailers and other corporations which want to buy products and services from social enterprises.
- Knowledge Transfer Social Enterprise Consultancy Project: New Horizon Career Planning Social Enterprise (<http://www.nhdchk.com>). This social enterprise has operated for 20 years and aims at helping students with special education needs (SEN) to find jobs and helping employers to understand SEN students’ (employees) talents and needs. The centre recently received funding support from the government to expand its services.

**Department of Economics and Finance** – The department conducted a variety of knowledge transfer (KT) activities in 2015-16, including serving on local and international professional and academic bodies, organizing international conferences, organizing and speaking at public lectures, writing blogs and newspaper articles, and taking media interviews. The department encourages its faculty to contribute to the transfer of knowledge both locally and internationally, reaching out to both academic and professional communities, and the general public.

**Department of Information Systems** - The department is a pioneer in research innovations and active in promoting knowledge transfer. It has been initiating outreach events to the communities as demonstrated in participating public seminars/lectures on upcoming and popular IoT topics like “Big Data Innovations” and “FinTech”. In addition, with the assistance from the BBA Global Business Systems Management (GBSM) major leader Dr Ron Kwok, three GBSM students have initiated applications on short-term patents with the Intellectual Property Department of HKSAR Government (HKIPD) for their inventions in 2014 and 2015. This is a remarkable achievement of undergraduate students in transferring IS knowledge to real-life business executions.

**Department of Management** – Five significant knowledge transfer events worth highlighting:

- Finding a Job and Being Successful in a Multinational Company – Nine representatives from various multinational companies shared their experiences and views on working in a multinational company in addition to their career path and personal advice for our students.
- Student Placement/Internship Schemes into Professional Settings – while most of the placements were in Hong Kong, a few students went to Beijing, Xiamen and even Africa for placement. The nature of the employers was also diverse.

- Executive Training at Pricewaterhouse Coopers – the department will tailor-made training seminars and short courses for newly recruited employees upon the request of large multinational companies. During 2015-16, the department was requested by Pricewaterhouse Coopers to provide a 2-day seminar for its new employees who did not have a business background.
- Student Entrepreneurship Project 2016 – students are encouraged to run a small business stall at the Chinese New Year Fair Night Market held at Victoria Park to practice their business acumen and managerial competencies.
- Outward Bound Leadership Course – this is a new summer course from Outward Bound designed to physically and mentally challenge our students while bringing out their potential leadership skills.

**Department of Marketing** – The department’s knowledge transfer endeavours focus on two main areas, namely delivering public lectures and serving as consultants to industries or serving as members of external advisory bodies.

Examples of international conferences included: “2015 ANZMAC Conference in Innovation and Growth Strategies in Marketing”, “2015 Summer Marketing Educators’ Conference”, etc.

**Department of Management Sciences** - Faculty members of the Department of Management Sciences actively take up honorary consultant roles in the committees of the public and/or private organizations, provide their professional advices that benefit to the community. Two units in the department, namely Statistical Consulting Unit (SCU) and Energy and Environment Policy Research Unit are highly productive in transferring professional knowledge to the community and public. The City-Centa Property Index and Hong Kong Consumer Confidence Index (HKCCI) are explicit examples of the community engagement. The department also put much effort and resources in coordinating and executing student internship programs during summers. For the past few years, students from both its undergraduate and postgraduate programs have provided fruitful consulting services to a dozen of companies, such as HIT, Starbucks, Parknshop, and MGB and many proposals from the consultancy were implemented by the companies. In the coming year, it is expected to focus more, subject to the availability of resources and manpower, in knowledge transfer to maintain its uniqueness and explore more collaboration with external organizations and committees.

## **Knowledge Transfer in College of Liberal Arts and Social Sciences**

The College of Liberal Arts and Social Sciences (CLASS) continued to show a steady growth in knowledge transfer (KT) activities in academic year 2015-16. Its faculty members conducted 538 KT activities during the reporting period, 15% more than previous year, through delivering public lectures, performances, exhibitions, media interviews, press conferences, newspaper articles, radio shows, community services and workshops, etc. 68 faculty members served as committee chairs or members for approximately 270 external bodies and professional societies. They also provided expert advice/consultancy services to government departments and statutory bodies. Some faculty members even led as Director of various major organizations around the globe, e.g. Firetree Asia Foundation, Phonetic Association of China (Beijing), Association for Business Communication.

To share outreach experiences with the CityU community and external partners, Professor T Wing Lo, Prof. Samuel Ho and Dr. Oliver Chan of Department of Applied Social Sciences gave presentations at the second CityU Outreach Seminar on "Rehabilitation" on 29 October 2015. Dr. July Hui, Senior Clinical Psychologist of Correctional Services Department, Professor Arthur Ellis, Professor Richard Walker, other Rehabilitation springboard faculty and external partners were invited to join the seminar and share their experiences on "Rehabilitation".

CLASS was the first College to launch the Excellence in Knowledge Transfer Awards in 2011 and this has become an annual event of CLASS since then. In the year of 2015-2016, CLASS continued to run the Award and the fifth call was completed. KT projects or activities of high social impacts were selected for receiving the award.

In order to promote KT in the College, CLASS Awards Day was held on 4 May 2016 to present prizes to the KT awardees and recognize their outstanding achievement in knowledge transfer. In the morning, a workshop was held and Dr. Yanto Chandra, the winner of Excellence in Knowledge Transfer Award shared with the participants his innovative approach in knowledge transfer. Besides CLASS faculty members, Professor John Bacon-Shone, Associate Director of Knowledge Transfer Office of University of Hong Kong, Ms. Claudia Liu, Public Affairs Assistant Manager of Office Research and Knowledge Transfer Services of the Chinese University of Hong Kong and Dr. Chan Po Kwok, Senior Education Department Officer of City University of Hong Kong joined the workshop and shared their KT experiences. All the KT-awarded projects were displayed at the exhibition. The CLASS Awards Day was successfully held and increased the visibility of KT commitment of CityU.

To share with the public on CLASS's outstanding development and achievements in research and knowledge transfer, a series of radio interviews had been held with CLASS faculty and broadcasted on a radio segment entitled [今朝城大事] on Metro Broadcast.

In August 2015, CLASS started to publish a magazine named "CITY CLASS" (<http://www.cityu.edu.hk/class/magazine/default.aspx>) which introduces CLASS's teaching excellence, academic achievement, knowledge transfer and research. The magazine is published twice a year and addressed to a wide range of readers including scholars, potential donors, prospective students, alumni, CityU companions and the general public.

In addition, CLASS Knowledge Transfer Committee held meetings regularly each year to monitor the progress of KT development, measure the effectiveness of the KT strategy at CLASS and also liaise and collaborate with other KT bodies within and outside CityU.

## **Knowledge Transfer in College of Science and Engineering**

In the year under review, the College of Science and Engineering (CSE) and its member departments continued to actively participate in a wide range of KT activities to transfer their professional knowledge and research results into practical applications to benefit industry and society. A substantial portion of the KT outcomes reported in section 15 was attributed to the concerted efforts of CSE faculty members. Below are KT activities of individual member departments.

### **Department of Architecture and Civil Engineering (ACE)**

ACE is active in providing consultancy service and contract/collaborative research for the public and private organizations. There were a total of nine contract research projects, two consultancy projects amounted to HK\$6.42m and twenty-two Mainland funded research projects amounted to RMB 18.67m undertaken by ACE faculty. Besides, six research projects amounted to HK\$3.85m under the Innovation and Technology Fund, Public Policy Research Funding and Environmental Conservation Fund were awarded to facilitate the formulation and development of government's policies in the respective disciplines. In addition, faculty members also actively contribute to professional practice, engage in various government advisory panels and community services, hence directly providing professional comments to the community. On the other hand, the department is also keen on coordinating academic activities and student internships for students so as to prepare our students for the professional settings.

### **Department of Physics and Materials Science (AP)**

AP colleagues are active in KT activities which contribute to different aspects in the society including government advisory bodies, professional institutions and tertiary education sector, etc. in addition to the traditional KT activities. Examples of these include:

- Appointed Member of Seven-member Advisory Committee, Large Scale Scientific Facilities, Chinese Academy of Sciences (中國科學院重大科技基礎設施諮詢委員會)
- Co-director of CAS-Croucher Foundation Joint Laboratory on Neutron Scattering Science and Technology, Chinese Academy of Sciences
- Member of Radiation Board and Chairman of Radiological Protection Advisory Group (Food and Health Bureau, HKSAR Government)

AP colleagues are in key positions to have direct influence on policies and regulations in the respective disciplines. There are also AP colleagues serving as Scientific Advisors for major scientific research programmes in Australia. They are also invited to review research grant proposals for overseas research funding agencies. AP colleagues have been serving as Editor or editorial board members for prestigious scientific journals. Some other AP colleagues serve as Board Member or Technical Advisor for private companies in relevant technology fields.

Colleagues in the department initiated a Croucher Summer School series on Neutron Scattering (run in 2014, 2016 and 2018) to raise the awareness as well as the overall level of knowledge in the relevant field among the academia and local R&D community.

### **Department of Biomedical Sciences (BMS)**

The Department carries out internationally competitive research in the biomedical sciences, promotes interdisciplinary and multidisciplinary collaboration, and conducts translational research from bench to bedside. Its research programmes aim to understand fundamental mechanisms of biological processes and diseases, and translate new knowledge into the development of novel

therapeutic strategies and clinical practices.

Departmental research focuses on three strategic areas: systems neuroscience, cancer biology and regenerative medicine. Multidisciplinary approaches are employed in areas including molecular and cell biology, genetics and genomics, physiology and pharmacology, systems biology and bioinformatics, microbiology and immunology, and biotechnology and nanotechnology.

Research activities are supported by a wide range of state-of-the-art equipment with cutting-edge techniques including electrophysiology and in vivo imaging, and anatomical, genetic, molecular and cellular tools to address challenges in the biomedical sciences.

### **Department of Electronic Engineering (EE)**

The Department continued to maintain its momentum on knowledge transfer activities by producing respectable paper publications in top-notch journals such as IEEE transactions/magazines (271 in 2014-15), publications of books/ book chapters (11 in 2014-15), delivering talks or keynote speeches (215 in 2014-15), organizing technical seminars/ workshops (69 in 2015-16), licensing, patent application (151 in 2014-15), as well as providing consultancy services (12 projects amounting to HK\$2,328,373 in 2015-16).

In the reporting year, there are a total of 111 on-going external research projects (GRF/ ECS, ITF, CRF, NFSC, HMRF, CROU, AoE, Contract Research) at a total value of HK\$120.48m, of which 15 are Contract Research projects (HK\$2.52m from 2 newly-approved projects in 2015-16 and HK\$13.76m from 13 on-going projects) and 11 are Collaborative Research projects (HK\$16.51 million from 5 newly approved project in 2015-16 and HK\$5.62m from 6 on-going projects). Notable examples included two newly approved Collaborative Research Fund (CRF) projects on “Biomimetic 3D Microsystem to Study Tumour Survival and Drug Responses” (HK\$7.99m) and “Efficient Algorithms and Hardware Accelerators for Tensor Decomposition and Their Applications to Multidimensional Data Analysis” (HK\$5.57m), as well as one newly approved Contract Research project on “Cooperation on Complex Networks Theory” (HK\$2.32m).

Faculty members are also sitting on different professional positions such as being Advisory Board Member of the Sensor Networks International Scientific Advisory Committee (SNISAC), Melbourne University, Australia; Chairman of the Disciplinary Tribunal Panel of Electrical and Mechanical Services Department, HKSAR Government; Member of the Strategic Advisory Committee, IT Education of HK Education Bureau; Deputy Chairman of the HKIE Accreditation Board; Member of the Public Examination Board of Hong Kong Examinations and Assessment Authority, etc.. Furthermore, a faculty member is actively involved in the government legislative formulation and its policy development in his capacity of District Councilor of Kowloon City District Council.

### **Department of Mathematics (MA)**

The Department of Mathematics has continued its effort in pursuing creativity and professional knowledge transfer during the reporting period. AP colleagues have been actively participating in related activities in order to have significant outcome and impact in the community. More precisely, 9 staff members engaged in memberships of Government, industry and professional advisory bodies such as Hong Kong Examinations and Assessment Authority Council, etc. There are also staff members serving as selection committee members for mathematical awards and competitions such as Academic Advisory Board of International Mathematical Modeling Challenge and Young Scientist Awards.

The Department always strives for a vigorous research culture to promote transfer of scientific research knowledge. Staff members published papers in top journals to further enhance the

research quality in this year. One project under an MA faculty member has been successfully secured external funding from National Natural Science Foundation of China. The Department is also actively organizing activities such as conferences, workshops, colloquia and seminars to cultivate a learning environment and platform for the benefit of research students. Two PhD students have been awarded Students Research Excellence Awards in this year.

More opportunities have been provided for early engagement of its undergraduate students in research through the Discovery-enriched Curriculum (DEC) during the year. The Department attracted a more than double increase in the number of students (7 in 2014-15 to 17 in 2015-16) enrolling the final-year project course, and organized a sharing session for PhD students and undergraduate students.

Among the 62 on-going projects by its staff, some of which have direct significant impact on the society such as projects in developing fault detection and isolation techniques and network fault-tolerant control to improve the reliability of practical distributed networked systems, finding out factors that relate to various abnormal developments of embryos so as to advance the general understanding of prognosis and treatment for the abnormal growth of human beings, developing an adaptive-mesh-refinement type PDE solver to help simulate and analyze problems which benefit aircraft design, telecommunication industry and evolution of high intensity focused ultrasound waves that plays an increasingly important role in non-invasive medical treatments of cancers, designing fast algorithms for multiscale directional transforms to assist in effectively extraction of key information from massive data, investigating the new design of directional FIR filter banks from the constructed subdivision masks that help reinforce the computer-aid design software in applications such as design of airplanes, cars and architectures, developing efficient computing algorithms and platforms to facilitate large-scale optimization for a vast amount of data.

To provide a rich and interdisciplinary learning environment, the interdisciplinary research project “Art and Mathematics” collaborated by MA and SCM is actively in progress and an exhibition under “Intangible Space” was recently held at an art gallery.

In addition, strong connections with Mainland and overseas universities have been further developed. For example, the Department has established an agreement with Scuola Internazionale Superiore Di Studi Avanzati (SISSA), Italy that is a scientific center of excellence. Another agreement with Georgetown University, US on accelerated degree programme is in process. In 2015-16, five workshops were co-organized by the Department with established mainland institutions such as Shanghai Jiao Tong University, Sun Yat-sen University. Another workshop organized with Chinese Academy of Sciences, two Mainland and two local universities will be held in mid-June of this year.

### **Department of Mechanical and Biomedical Engineering (MBE)**

In the period of 2015-16, researchers in the Department of Mechanical and Biomedical Engineering (MBE) made their great efforts to apply their research (applied/contracted) expertise and innovations with substantial impact to the industry and community in Hong Kong and mainland. The Department was active in KT activities which contribute to different aspects in the society including industry, manufacturing, government advisory bodies, professional institutions, and university/college education sectors. In addition, to improve related KT developments and practices, the Department also started to enhance the pool of patented innovations & technologies with commercialization potential. This brief report summarizes main KT programmes, activities, and developments of MBE in the reporting year.

The Department has made knowledge accessible to the community by research publications, delivering talks or speeches and organizing technical workshops/seminars. During the reporting year, 9 technical symposiums, forums, public lectures, and seminars were co-organized with local,



mainland, and overseas institutions. In particular, Dr. Raymond Lam Hiu-wai, Assistant Professor in the department, has recently developed a new type of intelligent electrode in the form of tight-fitting clothing that remotely monitors and records the heart conditions of patients. This new technology helps medical professionals fight heart disease and is particularly useful for elderly people suffering from coronary heart disease who are living alone.

A workshop on production procedures and recipes for nano-diamond film coating using hot-filament chemical vapor deposition (HFCVD) equipment was successfully organized by Associate Professor Dr. Lawrence Li and his team members.

The Department has also built close connections for KT activities with the society through providing consultancy services and contract researches. A summary of the key performance indicators for various KT areas in the period of 2015-16 is presented below:

Number of filed patents	: 10
Number of patents pending for filing	: 5
Number of collaborative researches and generated income	: 3 (\$5,321,650)
Number of contract researches and generated income	: 2 (\$664,000)
Number of consultancy projects and generated income	: 2 (\$3,313,720)
Generated net income from local and overseas companies	: 5 (\$5,621,650)
Number of public lectures / symposiums / exhibitions and speeches to community	: 9
Number of staff engaged as members of external advisory bodies	: 21

#### **Department of Systems Engineering and Engineering Management (SEEM)**

SEEM actively involves in knowledge transfer activities. SEEM engages in various contract research projects. Industrial collaborators include Syncrude Canada Ltd, The Boeing Company, Drainage Services Department, Towngas, MTR, Huawei Technologies Co., Ltd., SAE Magnetics (HK) Ltd., etc. SEEM's research team was awarded the Theme-based Research Scheme with total project fund of HK\$40.845m by the Research Grant Council in 2015. The project aims to develop a platform of tools that will improve safety and dependability for use by MTR and High Speed Rail operators.

SEEM continues to organize and host international symposiums and conferences in 2015-2016. These includes the Fourth International Conference on the Interface between Statistics and Engineering held in Italy, the Mainland-Taiwan-Hong Kong Symposium on Innovation and Entrepreneurship Education held in Hong Kong, and International Research Conference on Systems Engineering and Management Science 2016 held in Beijing.

## Knowledge Transfer in School of Creative Media

This annual report on knowledge transfer activities highlights the key initiatives carried out by members of the School of Creative Media (SCM) throughout the past academic year. Transfer of knowledge has been strategically implemented by the School through engagement with the community and public, as our key stakeholders. Over the years, its faculty members have served as active agents of knowledge transfer to influence the society through delivering lectures, publishing research results and participating in external advisory bodies. Their artworks have been exhibited around the globe to articulate the School's pioneering visions in media art research, development and education.

In this reporting year, the School has achieved notable outcomes in knowledge transfer through reaching out extensively to the public, gearing research towards excellence in cultural heritage conservation and visualization as well as driving effective initiatives within the School. Since it was established in 2011, Run Run Shaw Creative Media Centre (CMC), the permanent home of SCM, has grown in reputation and recognition as an international hub for symposiums, arts events and exhibitions. Either being an organizer or a supporting organization, SCM has put together numerous world-class exhibitions and conferences including *The 22nd International Symposium on Electronic Art (ISEA2016 Hong Kong)*, where the public was exposed to the latest developments in electronic and new media art. With the first edition well-received far and wide in 2014, *POST PiXEL: Animamix Biennale 2015-16* again exemplified the School's knowledge transfer by providing a platform to exchange on art practices and experience as well as communicating with the public animation and comics culture on contemporary art.

The School's ground-breaking collaboration with the National Palace Museum (NPM), *Rebuilding the Tong-an Ships New Media Art Exhibition*, introduced Chinese maritime history to the public by visualizing them with cutting-edge 3D, augmented reality, and Kinect sensor technology, through which knowledge was transferred and history preserved. The sister show that followed, *Giuseppe Castiglione – Lang Shining New Media Art Exhibition*, created for art community and the public a vivid media presentation of Italian Renaissance aesthetics in Chinese paintings.

By involving staff, students and alumni in home-grown events with participation from international audience - exhibitions, performances, symposiums and conferences - SCM has continued to expand the knowledge transfer capacity of staff and students.

SCM faculty's knowledge transfer capacity in the reporting year was evident in their active participation in a variety of external advisory bodies up to 80 posts. Their advisory responsibilities were required in industries, institutions, renowned publishers, editorial boards, and professional and government bodies. Half of these different advisory capacities were entrusted to the faculty by invitation from overseas organizations or institutes. This gives credit to SCM faculty's recognition in the global arena. Some of the faculty have continued with their commitment for up to 15 years, which is testimony to their good rapport with and strong recognition in the corresponding field and industry. Through these external responsibilities, SCM's influence has been made prominent in society through advising education curriculum, reviewing academic publications, pioneering research development, formulating best practices for industry, developing policies and shaping art development directions of various institutes and art organizations.

Faculty have not only produced research publications, conference proceedings and/or refereed journal articles based on their research interests, but also developed reference materials of high importance to artists, art professionals, educators and administrators. They have undergone knowledge exchange by a variety of means such as engagement in consultancies, research, artistic

partnerships, initiation and development of international exchange and internship opportunities for students. These kinds of knowledge transfer are of key significance in shaping the foundation of the creative media industry and education.

The internship programmes in SCM engage with various digital and traditional media, art, cultural companies and organizations, including those in the fields of games, animation, visual effects, graphic design, 3D modelling, interactivity, TV and film production, script writing and editing, arts administration, art and film research, art and media education, etc. The interns transfer their knowledge learned through their studies at SCM (for example, cutting-edge technologies in media and animation) to the industries. The industries, in turn, can benefit from aligning their technologies with world-class standards. Besides, students can gain field experience and job skills through internship. This greatly improves career prospects for graduates who may be offered positions in their host companies or organizations after graduation. In particular, those who practise internship abroad benefit themselves from overseas experience and improve their language skills.

## **Knowledge Transfer in School of Energy and Environment**

### **Introduction**

1. The School of Energy and Environment (SEE) was founded in July 2009 with the mission to perform cutting-edge research and provide professional education in energy- and environment-related issues. The faculty staff in SEE is proactive in participating in knowledge transfer activities, like contract research, school consultancy, community service, external advisory bodies, etc. which developed interactive exchanges with government, collaborators, related organizations, and society in general.

### **Efforts to build up KT capabilities**

1. SEE worked with Metro Daily and South China Morning Post by contributing articles to promote SEE and the respective research areas of faculty staff, and also inspire the general public to care and recognize the importance of energy and environment issues, so as to promote CityU's excellence in research and professional education, and care for the community and environment. Faculty staff in SEE contributed periodic articles on a particular subject to the Young Post (South China Morning Post) and contributed monthly articles on different topics to the education column of Metro Daily until August 2015.
2. Faculty staff in SEE has been interviewed by various media, such as Oriental Daily, TVB, CCTV News, HK01, South China Morning Post, and other newspaper publishers on innovative research and technology. The interviews help transfer innovative knowledge to the general public.

### **Outstanding knowledge transfer initiatives**

1. With a view to broadening the knowledge of the younger generation in the fields of energy and environment, ever since 2010, SEE has delivered talks on various topics to 1300 secondary school students in six secondary schools throughout the year. SEE also offers a number of expert talks which can be conducted in the CityU campus in Kowloon Tong or the secondary schools as requested.
2. To promote outreach/knowledge transfer in the theme of 'Environmental Sustainability' with faculty members and students. SEE co-organized a seminar with the Office of the Provost (PRVT) and the Department of Management Sciences (MS) on 22 September 2015. Dr. Zhi Ning was invited as one of the speakers to share related outreach experiences with audience.
3. Mr. David Hopwood, Editor (Renewable Energy Focus), ELSEVIER, a world leading publisher of scientific, technical and medical full text literature, was invited by SEE to give a "Publishing Connect Workshop" for Early Career Researchers on 21 March 2016. The workshop aimed to provide advice for getting paper published and provide information on publishing ethics. All research staff and research students in CityU were invited to attend the workshop. The workshop provided a platform for a group of editors to share their experience on paper published in the discussion with participants.
4. SEE received a group of secondary school students from the Diocesan Girls' School and Shatin Methodist Primary School for the Hong Kong Budding Scientist Award 2016. Being interested in the topic of food waste, the students interviewed Dr. Carol Lin and visited the laboratories in Hong Kong Science Park in April 2016.

5. SEE faculty staff also worked as consultants in the following consultancy projects for industry:

- Review of Components of the Japan Typhoon Model
- Consultancy Services for the Development of USEPA Green Village Project (VGP) Sensor Package in Hong Kong
- Review of Drainage Master Plan in Tai Po, Sha Tin and Sai Kung, and Northern Hong Kong Island
- Seasonal Predictions and Climate Projections of Heat Waves and Flooding Occurrences in South China and Hong Kong
- Climate Change Impact Study on Sewerage Facilities in Hong Kong - Feasibility Study

Another faculty member was invited to provide a training course on energy audit and energy conservation.

## **Knowledge Transfer in School of Veterinary Medicine**

The School of Veterinary Medicine (SVM) has established a Centre for Animal Welfare with an aim to taking a leading role in monitoring and advancement of Animal Welfare standards in Asia. The Centre supports research in animal welfare science in the Region. It provides researchers and workers in the field a platform for the exchange of scientific ideas and findings, through events such as conferences and seminars. The Centre also supports education. Through events such as training workshops, the latest findings and information can be disseminated and applied by the policy makers and other stakeholders who have a direct role in ensuring and improving the welfare of animals under human care.

The SVM Centre for Animal Welfare (CAW) and the Library together have organized the ‘Animal Welfare Series 2016’ with the first talk started in February 2016. The theme of this year’s Animal Welfare series focuses on Animals as Pets and Companions to People. The aim of the Series is to raise awareness of animal welfare among the CityU community and public in general.

Nine talks are lined up for this Animal Welfare Series that will address, review and tackle some of the welfare, ethical and often controversial issues associated with the keeping of companion animals. Speakers from CityU and different organizations and institutions will be invited to take part in the talks.

## **Knowledge Transfer in School of Law**

Below are highlights of knowledge transfer activities that School of Law and/or its colleagues carried out during the reporting period:

### *i) Research Contracting/Consultancy*

Two of the major forms of knowledge transfer by universities and academics are through research contracting and provision of consultancy services, which enable universities/individual scholars to transfer their expertise to the necessary organizations/institutions, the broader society at large, or even internationally. Below are some examples of contract research and consultancy services performed by the Law School's colleagues during the reporting period:

- Prof Geraint Howells acted as Advisor to European Consumer Association in their training project COJEF II;
- Prof Lin Feng served as Court appointed expert (High Court);
- Prof Gu Minkang served as People's Adjudicator (The People's Court of Nanshan District, Shenzhen);
- Dr Priscilla Leung served as a member of the Executive Council and a director for the HK Senior Executive and Professional Association.

### *ii) Professional Services*

In addition to their excellent achievements in teaching and research, colleagues of the Law School also engage in knowledge transfer through serving as members of professional bodies, government bodies, statutory bodies, and being given visiting or adjunct appointments by other universities, for example, during the reporting period:

- Prof Gu Minkang is member of the Maritime and Aviation Fund (MATF) and the Tripartite Taskforce and member of the Editorial Board of the Hong Kong Lawyer;
- Prof Geraint Howells is advisor of the Legal Education Fund Company Ltd and member of the Standing Committee on Legal Education and Training;
- Prof Lin Feng is member of the Law Reform Commission and member of the Telecommunications (Competition Provisions) Appeal Board;
- Mr Peter Chan is a member of the Standing Committee on Legal Education and Training.

### *iii) Community Engagement Activities*

During the reporting period, the School of Law, together with the three research centres under it, namely the Centre for Chinese and Comparative Law (RCCL), the Centre for Judicial Education and Research (CJER) and the Hong Kong Centre for Maritime and Transportation Law (HKCMT), has organized 9 conferences / workshops / symposia and 18 public lectures/seminars. Most of these events were opened to the public for free. Some of these events worth highlighting:

- Joint Conference on Magna Carta and the Rule of Law in Hong Kong

- Conference on Consumer Sales Law
- Perspectives on Chinese Contract Law
- The Occupy-Central Movement and Its Aftermaths: An Interdisciplinary Study

**iv) Mooting**

Mooting competitions are important knowledge transfer activities for law students. By participating in mooting competitions, students not only learn substantive legal principles related to different moots but also develop oratory and advocacy skills. These skills equip students for future learning and their pursuit of a legal career. Below were its students' participation during the reporting period:

- The 2016 Philip C. Jessup International Law Moot Court Competition (HK Regional Round: February 2016 and International Round: March 2016)
- Thirteen Annual Willem C.Vis (East) International Commercial Arbitration Moot (6-13 March 2016)
- Twenty Third Annual Willem C.Vis International Commercial Arbitration Moot (19-24 March 2016)
- Susan J. Ferrell Intercultural Human Rights Moot Court Competition (29-31 January 2016)
  - The Best Memorial Prize
  - Four Best Oralist Awards
  - LLB student Cheung Lai Tong won the top honour of the best oralists

**v) Training for Mainland Judges**

As a result of the agreements between the National Judges College and the Supreme People's Court of the PRC, the School of Law has been providing postgraduate courses for Chinese judges since the inception of its Programme in 2009. Mainland judges sent to the Law School under these agreements will enroll in one of the following three programmes: the Common Law Stream of our LLM Programme; the Doctor of Juridical Science Programme — the curriculum specifically designed for Mainland judges; and the Advanced Programme for Chinese Senior Judges. The intakes of the above Judges Programmes were temporarily suspended during 2015-16 but will resume in 2016-17 and thereafter.

**vi) Student Placement**

Legal placement enhances students' hands-on experiences apart from their theoretical learning in Hong Kong. Given its significance, legal placement is offered as one of the elected courses for our LLB and JD students while it is an important academic activity for our LLM students who are Mainland judges. For the former, they have to perform 160 hours of placement to satisfy the course's requirement, while the latter will normally be assigned internship to the High Court of Hong Kong.