

ANNUAL REPORT 2012/13

Recurrent Funding for Knowledge Transfer
in the 2012/13 to 2014/15 Triennium

submitted to
University Grants Committee



香港大學
THE UNIVERSITY OF HONG KONG

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Executive Summary

The support of the University Grants Committee for Knowledge Transfer (KT)/Knowledge Exchange (KE) has been an effective catalyst for the HKU Strategic Development Plan 2009-2014. The fruitful developments in the last triennium successfully steered the attention of all Faculties and relevant units of the University towards relating their ongoing and future activities to the concept of KE. As a consequence, the last triennium saw the University making significant achievements in KE following a well-defined strategy.

For this triennium, the University aims to further expand the University's capabilities in KE with the following integrated engagement focus:

- **Engaging the Community:** Developing partnerships with different stakeholder groups in the community, making HKU knowledge accessible, and making research impacts visible
- **Engaging Academic Staff:** Building recognition and reward mechanisms into the operational systems of the University for staff contributions to KE
- **Engaging Students:** Developing a student culture of engagement with the community

As described in the Initial Statement for the 2012-15 triennium, the key element underpinning our KE strategy in this triennium is the emphasis on the communication and evaluation of **impacts** of HKU's excellent research. Efforts are made to further develop the impact evaluation mechanism and capabilities to articulate and reward the broad impacts of our excellent research to society.

The five impact case histories submitted as part of this annual report illustrate the significant impacts made by our academic staff based on excellent research, from reversing the trend of dwindling interest in Cantonese Opera in society, especially among young people; changing the international guidelines on ventilation design in healthcare settings to control the spread of infectious diseases; influencing public policy to bring about changes in legislation to a neglected area; improving quality of life of both child patients and their parents through empowerment by accessible health knowledge; to causing change in the teaching and learning of students with reading and writing difficulties. The changes they brought about are of fundamental importance to society, not only locally, but in some cases, also regionally and even globally.

A remarkable development seen this year is that **KE has increasingly been integrated into the University's structures, processes, systems, calendar as well as regular activities**. Tremendous progress has also been made in making HKU knowledge accessible to society through the media, the HKU Scholars Hub, dedicated KE websites and social media.

Partnerships play an instrumental role in effective KE, and efforts are made by all Faculties to strengthen existing partnerships and develop new partnerships, including community and professional partnerships, contract research partnerships and technology transfer partnerships. Community and cultural engagement activities have become embedded in the annual plan of our Faculties. A new Partnerships webpage has been built, which links external organizations to the various online resources of the University to explore opportunities of working with our students through internships or student projects and to search for our researchers for potential collaboration.

Looking ahead, the University will further develop the impact agenda, promote social entrepreneurship among students, and develop better connections between research postgraduate student projects and community needs.

1. Preamble

With the UGC's support in the form of earmarked funding for Knowledge Transfer (KT) since 2009/10, the University has made a successful start in building Knowledge Exchange (KE) into the HKU culture in the last triennium. The University is grateful for the UGC's continued support of KE through the earmarked funding in the 2012-15 triennium.

As the University continues on the journey to embed KE in its core missions, enthusiasm and awareness in all quarters of the University keep on growing. For this triennium, the University aims to further expand the University's capabilities in KE with the following integrated engagement focus:

- **Engaging the Community:** Developing partnerships with different stakeholder groups in the community, making HKU knowledge accessible, and making research impacts visible
- **Engaging Academic Staff:** Building recognition and reward mechanisms into the operational systems of the University for staff contributions to KE
- **Engaging Students:** Developing a student culture of engagement with the community

The University's KE strategy in the new triennium is underpinned by an emphasis on **impact**.

This report provides a summary of the University's KE developments in 2012/13. In this report, the term "Knowledge Transfer" (KT) is used when referring to the UGC's recurrent funding allocation for the 2009-12 and 2012-15 trienniums, whereas "Knowledge Exchange" (KE) is used when referring to HKU.

2. Strategic KE Developments

Figure 1 below, which was set out in the Initial Statement for the 2012-15 triennium, summaries the strategic approach of HKU KE development with initiatives to be supported by the UGC KT funding for this triennium.



Figure 1. HKU KE Strategy in the 2012-15 triennium

2.1 Impact as the Priority Aim

As described in the Initial Statement for the 2012-15 triennium, **the key element underpinning our KE strategy in this triennium is the emphasis on the communication and evaluation of impacts of HKU's excellent research**. Efforts are made to further develop the impact evaluation mechanism and capabilities to articulate and reward the broad impacts of our excellent research to society. For instance, we continue to communicate such impacts through the KE Award Scheme, KE newsletters, and highlights of KE-related news, both internally and externally.

Following the UGC's note of February 2012 on the "proposed funding & reporting mechanism for knowledge transfer activities in UGC-funded Institutions", the University is pleased to submit five impact case histories as follows:

- **Breathing New Life into an Art Form at Risk: Cantonese Opera ([Annex I-A](#))**
- **New Understanding and Guidelines on Ventilation for Better Infection Control in Hospitals ([Annex I-B](#))**
- **Paving the Way for Policy Changes and New Legislation for Animal Welfare in Hong Kong ([Annex I-C](#))**
- **A Series of Books on Important Paediatric Diseases for Patient Empowerment and Public Education ([Annex I-D](#))**
- **Transforming the Learning Experience of Students with Reading and Writing Difficulties and Empowering Teachers and Frontline Professionals ([Annex I-E](#))**

These success stories illustrate the significant impacts made by our academic staff based on excellent research:

- reversing the trend of dwindling interest in Cantonese Opera in society, especially among young people;
- changing the international guidelines on ventilation design in healthcare settings to control the spread of infectious diseases;
- influencing public policy to bring about changes in legislation to a neglected area;
- improving quality of life of both child patients and their parents through empowerment by accessible health knowledge; and
- causing change in the teaching and learning of students with reading and writing difficulties.

The changes they brought about are of fundamental importance to society, not only locally, but in some cases, also regionally and even globally.

2.2 Embedding KE in the HKU Culture

While KE developments at the University continue to benefit from the UGC's special funding earmarked for KT, a remarkable development seen this year is that KE has increasingly been integrated into the core and regular activities of the University. As

mentioned by our Vice-Chancellor Professor Lap-Chee Tsui in an article in the KE Newsletter Issue 3 ([Annex II](#)):

“Knowledge exchange is in fact closely intertwined with our academic activities. I strongly believe that all knowledge exchange should have an academic rationale – it is not simply a service to the community. Just like teaching and research, it is part of our culture. Our scholars therefore should be thinking day in and day out about how they can benefit society. Good knowledge exchange must be underpinned by our excellence in research or teaching.”

The following examples illustrate how **KE has been embedded in the University’s structures, processes, systems, calendar as well as regular activities.**

2.2.1 KE Awards Included in the Annual Award Presentation Ceremony for Excellence

The KE Award Scheme was launched in 2011 to recognize outstanding KE accomplishments that have made demonstrable economic, social or cultural impacts to benefit the community, business/industry, or partner organizations. Starting from 2012/13, KE Awards are presented at the University’s annual Award Presentation Ceremony for Excellence, alongside the long established awards for Teaching and Research. The Ceremony for 2012 was held on March 27, 2013 in Loke Yew Hall. An extract from the Ceremony programme on the KE Awards 2012 is at [Annex III](#).



The Faculty KE Award exercise is conducted annually. A summary of the awards made by Faculties so far for the 2013 exercise is at [Annex IV](#). The results again show the diverse KE activities in different disciplines and the wide impacts on society. These outstanding achievements will be recognized at the Award Presentation Ceremony for Excellence to be held in early 2014.

2.2.2 KE Factored into the Faculty Budget Resource Allocation Process

As part of the University’s plan- and performance-based internal funding process, Faculties are invited to submit each year a faculty development plan reporting on their performance in the past year and charting their future plans. These plans cover all major areas of Faculty activities. KE performance and plans are now featured in the annual Faculty Development Plan exercise, alongside Teaching and Research. Not only are Faculties requested to report and provide a self-assessment of their KE activities, but such activities are also kept under regular review by the senior management, through the Budget and Resources Committee, and fed into the University’s internal budget allocation mechanism.

2.2.3 Regular Features in University Publications

KE has become a regular section in publications at the University level, notably *The Review*, which is the University’s annual report, and the *Bulletin*, the HKU magazine that features the University’s latest activities. The KE stories featured in these University publications not only highlight the University’s efforts to benefit society with the

knowledge and expertise of our academic staff and students, but also serve to illustrate the importance of KE as one of the three missions of the University. An extract of the KE section in each of *The Review 2012* and the latest issue of the *Bulletin* are at [Annexes V and VI](#) respectively.

2.2.4 Enhancement of Enumeration Process for Social, Community and Cultural Engagement

The University welcomes the UGC's decision to regularize the reporting of KE related data in the annual Common Data Collection Format (CDCF) exercise. To enhance the enumeration process for social, community and cultural engagement, we have conducted a revamp of the Event Management System (EMS), which was originally an information system designed for event publicity only, to provide a facility for collection of the relevant data across the University. Guidance has been provided to all event organizers to incorporate the data reporting procedures via the EMS into their event organization workflow.

2.2.5 Regular Events in the University Calendar

The KE activities initiated in the last triennium for best practice sharing and targeted skills training, such as the monthly KE lunch seminars, Entrepreneurship Academy and the Three Minute Thesis (3MT®) Competition, etc, have become regular events in the University calendar and are always very well attended.

2.3 Making Knowledge Accessible

2.3.1 Strengthening Knowledge Dissemination via the Media

In the reporting year the KE Working Group, comprising the senior management for KE and a representative at Associate Dean level or above in each of the ten Faculties, has worked with the Communication and Public Affairs Office (CPAO) to review the effectiveness of the University's efforts in publicizing knowledge through the media and the impact made on the community. It is recognized that the media is an important channel through which the University could effectively disseminate the new knowledge generated by our academic staff to the public, articulate the impact of the University's excellent research on society, and contribute to public debate.

Since the review, in addition to the yearly breakdown by Faculty of the quantitative data on KE news coverage, CPAO has produced a monthly qualitative media analysis of KE-related news for reference by all Faculties. Stories that demonstrate good potential in opening new areas of public interest and media attention are selected for analysis and further discussion with the Faculties concerned. Such information will provide insights to Faculties, facilitating them to keep in view their strategies for community engagement via the media. Furthermore, efforts have been made to include HKU knowledge reported in international media on the HKU website for easy reference by the public.

The year-on-year increase in the quantity of news relating to HKU knowledge indicates that the University and individual academic staff members are gaining momentum in engaging the community through the media and that their efforts have been well received by the media and the community at large.

2.3.2 The HKU Scholars Hub

The HKU Scholars Hub (<http://hub.hku.hk/>), which is the visible expertise directory of HKU and a unique one-stop online platform for searching our experts, continues to grow.

The Hub has made HKU researchers, their research and expertise highly visible, with significant increase in view and download counts. For example, the view count of the HKU ResearcherPages has increased from 349,741 by end of June 2011 to 1,057,210 by end of June 2013.

2.3.3 KE Websites to Meet Unmet Knowledge Needs

An increasing number of academic staff members have made use of web technologies to share their knowledge and expertise, especially to fill the gap in certain areas where there are unmet needs in society. A few notable examples include:

- the first legal information website specially designed for young people in Hong Kong: the Youth CLIC website (<http://youth.clic.org.hk/>);
- the first bilingual legal information website for seniors in Hong Kong: the Senior CLIC website (www.seniorclic.hk);
- the Human Rights Portal (www.law.hku.hk/hrportal), which is a virtual centre that provides access to human rights resources - articles, documents, videos, guides, manuals and links, in English as well as traditional and simplified Chinese;
- the website on the standardised protocol for blood cancers and diseases (www.hpshk.com); and
- the Linguistic Minorities website (<http://linguisticminorities.hk/>), which brings together information, resources and state-of-the-art research on the linguistic situations of ethnic minorities in Hong Kong, etc.

2.3.4 Increase in Use of Social Media

As the use of social media continues to grow, especially among young people, it is recognized that social media and mobile technologies have become useful tools to disseminate knowledge. Many Faculties and units in the University have made use of various social media and mobile technologies to share their knowledge and reach out to different groups in the community. A list of the social media resources built by our Faculties and units is at Annex VII.

2.4 Engaging the Community

2.4.1 Facilitating Partnerships

As described in the Initial Statement for the 2012-15 triennium, our Knowledge Engagement strategy for this triennium emphasizes the development of partnerships with different stakeholder groups in the community. Efforts are made by all Faculties to strengthen existing partnerships and develop new partnerships, including community and professional partnerships, contract research partnerships and technology transfer partnerships.

The University has taken Sir Brian Fender's advice on "one-stop shop" access by SMEs and broadened the idea to provide an online gateway to make it easy not only for SMEs but for all potential external partners to explore collaborative opportunities with our academic staff and students. A new Partnerships webpage (Annex VIII) has been built, which links external organizations to the various online resources of the University to explore opportunities of working with our students through internships or student projects and to search for our researchers for potential collaboration.

2.4.2 On-going Commitment to Community Engagement

Community and cultural engagement has firmly become an on-going commitment of the University. Such activities have become embedded in the annual plan of our Faculties. Examples include the University Artists Scheme, HKU Concert Series, Summer Institute in the Arts and Humanities of the Faculty of Arts; the Distinguished Lecture and the Education Seminar Series of the Faculty of Education; the Continuing Professional Development programmes, LawTech talks and public lectures of the Faculty of Law; the “Explore the World of Medicine” Public Lecture Series of the Li Ka Shing Faculty of Medicine; the Junior Science Institute of the Faculty of Science; and the Contemporary China Studies Public Lecture Series of the Faculty of Social Sciences, etc.

The University also seeks to strengthen the partnership with the museums. Following the success of “A Night at the Science Museum”, which was jointly organized by HKU, Hong Kong Science Museum and IBM in 2011, the University co-organized “A Night at the Museum of Art with Andy Warhol” with the Hong Kong Museum of Art in February 2013. Around 600 students and teachers from 57 secondary schools participated in this unique event to discover a new meaning to creativity and pop art, media and technology, as well as culture and society.

2.5 Broadening KE Opportunities

2.5.1 Competitive Impact Project Funding Scheme

The University continues to make use of the UGC KT funding to run the Competitive Impact Project Funding Scheme in 2012/13, which provides support to academic staff to undertake innovative projects that have the potential to create social, economic, environmental or cultural impacts for industry, business or the community by building on expertise or knowledge in the University. In 2012/13, 57 proposals were received, of which 39 were supported. A list of the funded projects is at [Annex IX](#).

The projects in the reporting year saw our faculty members making use of their knowledge and expertise to benefit different non-academic sectors in society, for example, new immigrants, rural communities, primary and secondary school teachers and students, non-governmental organisations (NGOs), and healthcare professionals, etc.

2.5.2 Building Platforms to Bring Innovations to the Mainland

The University considers it important to provide the infrastructural support to enable our researchers to extend their research capabilities to the Mainland in order to benefit the innovation and economic developments of our country. The HKU Shenzhen Institute of Research and Innovation (HKU-SIRI) and the HKU Zhejiang Institute of Research and Innovation (HKU-ZIRI) have been established in Shenzhen and Zhejiang respectively to serve as the University’s base in the Pearl River Delta and the Yangtze River Delta respectively. These enabling platforms will facilitate our researchers to explore collaborative opportunities with industries in the respective regions with a view to developing joint projects and expediting technology transfer. Furthermore, the new HKU-Shenzhen Hospital, which was opened in July 2012 in Shenzhen, enables our Medical Faculty to introduce a new hospital management system and patient care culture to the Mainland.

2.5.3 Student KE Project Grant Scheme

Based on the experience gained in the pilot exercise in 2011/12, the Student KE Project Grant Scheme was continued in the reporting year to encourage students to undertake KE

projects. The quality of proposals received in 2012/13 has improved tremendously. 27 proposals were received, of which 18 were supported. A list of the funded projects is at [Annex X](#).

2.5.4 *Nurturing Entrepreneurs*

The Entrepreneurship Academy run by the Technology Transfer Office since 2010 has become increasingly popular with research staff and research postgraduate students. In 2012/13, the workshop series attracted about 100 participants. The Entrepreneurship Academy has already built up an alumni body. Apart from the workshop series, support has been given to the participants and alumni to have networking opportunities with early stage entrepreneurs and access to CoCoon, an open co-working space for entrepreneurs.

3. Quantitative Indicators

As explained in our Initial Statement, given the broad definition of KE of the University, our performance indicators are not limited to the UGC required metrics, but also other indicators that are highly relevant to the University's KE efforts. Two tables on the UGC and HKU performance indicators respectively are at [Annex XI](#). All the KE indicators are tracked by the KE Executive Group to ensure that HKU stays on track to meet targets. The progress tracked does not relate only to the UGC KT funded activities, but also KE activities supported by other fund sources.

4. Looking Ahead

The University will continue to drive KE developments based on the strategy set out in the Initial Statement. The impact agenda will be further developed, with arrangements made for the visits of overseas experts in 2013/14 to share their experience in this respect.

In addition, the University will promote social entrepreneurship to engage more students to make use of their knowledge to serve society. For instance, the Faculty of Social Sciences launched the new "Excellence and Capacity building for Entrepreneurship and Leadership for the Third Sector" (ExCEL3) programme in 2011/12, which is supported by the Hong Kong Jockey Club Charities Trust. This inter-disciplinary ExCEL3 project aims to build the capacity of NGOs and empower civil society in Hong Kong, as well as build research and teaching capacity in the study of civil society within the University. One of the themes of ExCEL3 is Social Entrepreneurship and Innovation, under which there are collaborative projects and workshops with NGOs to promote the development of social entrepreneurship activities.

Furthermore, to develop better connections between research postgraduate (RPg) student projects and community needs (where community includes industry, government, business and NGOs), the University plans to introduce a community scholarship scheme for RPg students. It will facilitate outside organizations to propose partnership projects that yield community benefits while enabling students to have challenging projects and providing some additional financial support.

July 31, 2013

THE UNIVERSITY OF HONG KONG

IMPACT CASE HISTORY**Breathing New Life into an Art Form at Risk: Cantonese Opera****1. Summary**

The HKU Cantonese Opera Education Research and Promotion Project conducted by Dr Dorothy Fung Ping Ng is an innovative project to integrate Cantonese Opera into the formal secondary school curriculum, specifically the Chinese Language, Chinese Literature and Liberal Studies, with a goal to guide students to appreciate and respect the culture of Cantonese Opera, and in turn to help preserve this traditional art form. The efforts of her team convinced the teachers of the value of Cantonese Opera and the success in the first 4 schools participating in a pilot project has led to more than 20 secondary schools integrating Cantonese opera into their curriculum. Dr Ng's work has also contributed to the increase in public interest in Cantonese Opera as an intangible Chinese cultural heritage.

**2. Underpinning Research**

Dr Dorothy Fung Ping Ng, Assistant Professor in the Faculty of Education, is concerned about the challenges facing Cantonese Opera, which is a Chinese cultural treasure that has become a fading art. The number of Cantonese Opera performances in bamboo shed theatres in Hong Kong has dwindled from 158 in 1970 to 34 in 2010. The traditional bamboo sheds where operas are performed and the accompanying communal rituals are also under threat.

Dr Ng aims to make a significant educational development in Hong Kong by integrating this cultural treasure into Chinese language education of the secondary school curriculum. There is more to Cantonese Opera than just the music; it has a strong basis in traditional Chinese literature, the Cantonese dialect and dance, and Chinese rituals. She started her work in the form of a seed project, called the “Seed Project of Cantonese Opera – Integrate Cantonese Opera in Education” (the “Seed Project”), in 2006. It involved professional training for secondary school teachers and the development of the curriculum as well as an assessment mechanism. This Seed Project was completed in 2009. The research component covered the following:

- (a) Research was conducted on the script of Tang Di Sheng, the renowned Cantonese Opera scriptwriter, in the context of the Chinese/Beijing history and culture. This was a collaborative research project with the Beijing Normal University, the research area being also an important one to the Mainland’s Education Department.
- (b) In the first stage of the project, four schools were involved, and a new teaching module was implemented in the junior secondary Chinese language curriculum. There were two sub-categories in this curriculum development, which were script study and performance study. For script study, famous Cantonese Opera scripts, such as “Princess Chang Ping” written by Tang Di Sheng, were used as study text. Students read and studied the scripts and learned about the language and cultural elements from the scripts. For performance study, students were taught by professional Cantonese Opera artists about basic movements and singing of Cantonese Opera. Basic ideas of make-up, costumes and technical arts were also introduced to the students. In the second stage of the project, arrangements were made for the students to watch Cantonese Opera performances both in theatres and in outdoor shed stages. Classroom data of both script and performance studies and student learning outcomes were reviewed. Research was also conducted on innovative teaching methods, such as Story Schema teaching and Play-reading pedagogy.
- (c) In-depth interviews and shadowing were done with Cantonese Opera artists.

The Seed Project generated 3 books, 3 refereed international journal articles, 1 book chapter, 10 international and regional conference presentations, and over 10 keynote speeches and invited lectures.

The success of the Seed Project led to significant donations and more grants, which enabled Dr Ng to extend the impact of her work to more schools and the community under a new project called “HKU Cantonese Opera Education Research and Promotion Project”, which was kicked off in the 2009-10 school year.

3. References to the Research

Key publications:

Ng, F.P., Chung, A.L.S. and Lam, J.W.I. (2009) 'Curriculum Development and Strategies: Integrate Cantonese Opera in Chinese Language Education in Hong Kong', *The International Journal of Learning*, Common Ground Publisher (peer-reviewed).

Ng, F.P., Chung, A.L.S., *The Art of Leung Sing Boh* (梁醒波傳: 亦慈亦俠亦詼諧), 2009, ET Press (in Chinese).

Ng, Dorothy F. P. and Lam, J. W. I. (2009) 'Teaching Cantonese Opera Script: Story Schema Approach', N. H. Salas and D. D. Peyton ed., *Reading: Assessment, Comprehension and Teaching*, Nova Science Publishers.

Ng, F. P. and Lam, J. W. I. (2009) 'Teaching of Reading Cantonese Opera Scripts for Hong Kong Secondary Students – Story Schema Approach', *Reading: Assessment, Comprehension and Teaching*, N.Y. Nova Science Publishers, Inc.

Ng, Dorothy F.P., Lam, J. W. I. & Choi, K. K. (2010) 'The Application of Free Web Tools to E-learning Platforms for Integrating Cantonese Opera into Hong Kong Chinese Language Education in the Era of Web 2.0', *The International Journal of Learning*, 16, 67-85 (peer-reviewed).

Ng, F.P., Wai-Sze Yeung (2011) 'Integrating Cantonese Opera: Students' Learning Outcomes and Assessment', *The International Journal of Learning*, 277-295 (peer-reviewed).

Selected external grant funding:

1. Integrated Cantonese Opera in Education: A Seed Grant

Funding Scheme:	Cantonese Opera Development Fund
Principal Investigator:	Dr Dorothy Fung Ping Ng
Period:	2006
Amount Awarded:	HK\$300,000

2. Integrating Cantonese Opera on NSS Chinese Language Curriculum and Assessment: A Seed project (融合中國語文科新高中課程及評估計劃「粵劇小豆苗」)

Funding Scheme:	Cantonese Opera Development Fund
Principal Investigator:	Dr Dorothy Fung Ping Ng
Period:	2006-2008
Amount Awarded:	HK\$200,000

3. Integrating Cantonese Opera on NSS Chinese Language Curriculum and Assessment: A Seed project (融合中國語文科新高中課程及評估計劃「粵劇小豆苗」)

Funding Scheme: Yam Pak Charitable Foundation
 Principal Investigator: Dr Dorothy Fung Ping Ng
 Period: 2007-2009
 Amount Awarded: HK\$2,000,000

4. Research on Interactive learning from presentations and demonstrations of Cantonese Opera Artists at collaborating schools (粵劇老倌到校現身說法的互動學習研究)

Funding Scheme: Cantonese Opera Development Fund
 Principal Investigator: Dr Dorothy Fung Ping Ng
 Period: 2007-2008
 Amount Awarded: HK\$150,000

4. Details of the Impact or Benefit

The “HKU Cantonese Opera Education Research and Promotion Project” has successfully incorporated Cantonese Opera into the senior secondary curriculum. Dr Ng and her team have developed curriculum materials, including multimedia teaching materials such as video clips of Cantonese Opera performances, teaching reference books such as *Princess Changping Classroom* (帝女花教室) and *Legend of the Purple Hairpin Classroom* (紫釵記教室), and a school-based evaluation system, so students can study Cantonese Opera as part of a formal syllabus rather than an extra-curricular activity. This ensures that it is taken seriously as a study option. The study of Cantonese Opera scripts not only enhances the students’ linguistic skills but also increases their cultural literacy.



In addition, through studying the local culture of Cantonese Opera in general and bamboo shed theatre in particular, students are exposed to learning experience in a novel situation, which helps them develop a broader aesthetic perspective and a critical understanding of different art forms. The learning activities aim at encouraging students to appreciate and treasure their own culture and traditional art forms, recognizing Cantonese Opera as an intangible cultural heritage and their social responsibility to preserve their own cultural heritage by participating actively in promoting its sustainability. The study of the ritual beliefs and worships of bamboo shed theatre can also help students analyze the values that are essential to human bonding in rural communities.

Since most teachers are not familiar with Cantonese Opera, workshops and seminars for teachers were organized to brief them about how to integrate it into the teaching of Chinese language and Liberal Studies. Meetings were also held with teachers to help them prepare joint school lesson plans.

Numerous web resource materials were created to facilitate teachers to develop their own teaching materials. For example, a blog based on the information gathered from shadowing Cantonese Opera artists introduces students to the backstage world of a shed theatre. Another blog was developed to serve as a web-based platform for teachers and students from different schools to interact and exchange experience. Furthermore, upon completion of the school-based curriculum, a joint-school-report meeting was organized for the participating schools to share and exchange their views and experience and to assess the learning outcomes.

The efforts of Dr Ng's team convinced the teachers of the value of Cantonese Opera and the success in the first 4 schools in the Seed Project has led to more than 20 secondary schools integrating Cantonese opera into their curriculum.

Dr Ng's team works closely with and provides support to the industry. They have collaborated with the Chinese Artist Association of Hong Kong and the Cantonese Opera Academy of Hong Kong Limited on the Action Research on Teaching Cantonese Opera Script Writing Project since 2009. They facilitate the teaching of Cantonese Opera scriptwriting course and systematize the curriculum.

A lot of efforts have been made to promote Cantonese Opera as a distinct part of southern Chinese cultural heritage in the community. In 2009, Dr Ng and her team published the biography of Leung Sing Boh, the renowned Cantonese Opera, movie and television artist, titled "The Art of Leung Sing Boh". The biography and the associated exhibition were very well received by the public. They were elected as the Top 10 News in Cantonese Opera Industry 2009 by RTHK Radio 5, and the biography was listed among the top 10 best sellers in Hong Kong (non-literature category) for two months in 2009.

In January 2013, one of the project outcomes relating to bamboo shed Cantonese Opera and school education, including an introductory video, was displayed at a roving

exhibition of the Lord Wilson Heritage Trust, starting at the Hong Kong Heritage Museum in Tsim Sha Tsui, which was hosted by the Home Affairs Bureau.

Dr Ng's work has made a significant contribution to reverse the trend of dwindling interest in Cantonese Opera, especially among young people, and inspire new generations to appreciate this traditional art form.

5. References to the Corroboration of Impact or Benefit

• Honours and Awards:

- The 3rd phase of the Seed Project in 2008/09 (with 11 partnering schools, benefiting more than 11,000 participants) was awarded the Bronze Award for Arts Education (Non-School Division) by the Hong Kong Arts Development Council in 2010. This award aims at according recognition to schools, organizations and arts practitioners who have distinguished achievement in arts education. The Panelists' opinion on the project was that it "successfully incorporates Cantonese Opera into the senior secondary curriculum. It is sound in strategy and structure with its wide coverage and emphasis in experience sharing. Cantonese Opera troupes demonstrate performances at school help students understand this intangible cultural heritage and deepen their understanding of Chinese culture".
- The biography titled "The Art of Leung Sing Boh" was listed in the top 10 best sellers in Hong Kong (non-literature category) for two months in 2009 and was awarded the 22nd Hong Kong Print Awards Distinguished Publishing Award, Genre (Biography) in 2010, which was jointly organized by the Graphic Arts Association of Hong Kong, Hong Kong Publishers Society, Trade Development Council, the Leisure and Cultural Services Department and the Hong Kong Productivity Council.
- The biography titled "The Art of Leung Sing Boh" and the associated exhibition were elected as the Top 10 News in Cantonese Opera Industry 2009 by RTHK Radio 5.
- In 2013, the HKU Cantonese Opera Education Research and Promotion Project was chosen as one of the 10 highlights of the Lord Wilson Heritage Trust celebrated at the 20th anniversary of the founding of the Trust.

• Media Coverage:

The project was reported in the news and other media for over 50 times over the years.

- **Membership of External Bodies:**

- As a result of the significant achievements of the project, Dr Ng was appointed by the Home Affairs Bureau of the HKSAR Government to serve as a member of the Arts Development Advisory Committee, the Intangible Cultural Heritage Advisory Committee, and the Cantonese Opera Advisory Committee.
- Dr Ng was also appointed as the honorary advisor of the Chinese Artist Association of Hong Kong.
- The Hong Kong Academy for Performing Arts invited Dr Ng to be an External Panel Member for Internal Validation Exercise for four academic programmes offered by the Office of Chinese Traditional Theatre Programme in 2012.
- Dr Ng was invited by the Hong Kong Arts Development Council in 2012 as Assessment panelist for the Award for Arts Education (Non-school) of the Arts Development Awards 2011.
- She was also invited by the West Kowloon Cultural District Authority and the Chinese Artist Association of Hong Kong as Consultant to West Kowloon Bamboo Theatre in 2011 to 2012.

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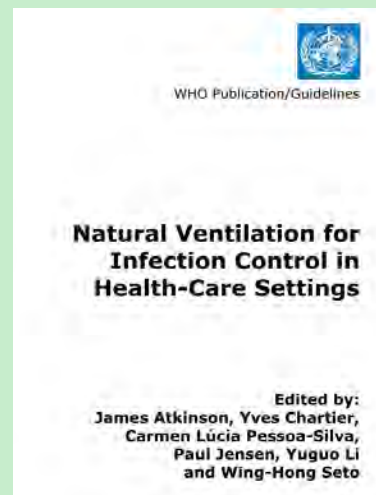
IMPACT CASE HISTORY

New Understanding and Guidelines on Ventilation for Better Infection Control in Hospitals

1. Summary

Research led by Professor Yuguo Li of The University of Hong Kong demonstrates how excellence in research can be applied to real problems of importance to the community, in this case how infectious diseases such as Severe Acute Respiratory Syndrome (SARS) and influenza might be transmitted through, and on the other hand, controlled by, ventilation. The research has been developed into principles and guidelines for ventilation systems in hospital environment settings, and achieved international impact.

The World Health Organization (WHO) has incorporated the research findings of Professor Li’s team into the ventilation chapter of its 2007 interim infection control guidelines for healthcare settings, which were widely used in the 2009 pandemic influenza management by WHO. The team also led and developed the new WHO guidelines on natural ventilation for infection control in health-care settings in 2009, which have been particularly useful for application in resource-limited countries.



2. Underpinning Research

The underpinning research has been carried out by the research team led by Professor Yuguo Li, Professor in the Department of Mechanical Engineering, Faculty of Engineering, since the SARS outbreak in Hong Kong in 2003. The virus in the 2003 SARS epidemic or the 2009 influenza pandemic might have jumped from animals to humans, but it is in buildings that viruses are transmitted between people. In 2003, Professor Li was encouraged by the then Dean of Engineering, among a team of engineers, to produce a plausible explanation based on engineering principles related to ventilation on how the SARS virus had spread within one complex, Amoy Gardens. The work was eventually published in the *New England Journal of Medicine*.

Working with experts from other disciplines and the Hong Kong Institution of Engineers' SARS Busters, Professor Li's team also constructed a six-bed SARS ward test room and demonstrated the basic principles of isolation ventilation to hundreds of medical doctors, nurses, engineers, health officials, and media from Hong Kong and Asia. The team went on to study the critical issues in ward ventilation design.

Since 2003, Professor Li's team has studied how expiratory droplets dry up and disperse, and how ventilation can minimize the exposure of the droplet nuclei in hospitals, particularly in isolation rooms. They carried out field measurement in more than 50 SARS wards in 9 hospitals in 2005 and identified key research needs, which were supported by grants from the Research Fund for the Control of Infectious Diseases (RFCID). They studied how SARS and influenza were transmitted in a number of outbreaks in Hong Kong and Beijing, the right negative pressure, the optimum ventilation method, how droplets evaporate in the indoor environment, how cough works, and why Grantham Hospital had been naturally ventilated since 1957, etc.

In the past, guidelines on hospital environments were developed by medical doctors and infectious disease control professionals with very little input from engineers. The objective was to remove droplets but they assumed the droplets would be heavy and would fall. Hence they put the ventilation exhaust in the lower part of the room. Professor Li and his team showed that droplets could also disperse upwards and that ventilation at the top of the room was better at managing dispersion. Their findings have implications for a range of infectious diseases, such as avian flu and swine flu.

3. References to the Research

The research was supported by 4 grants from the Research Grants Council's General

Research Fund (GRF), 1 grant from the National Science Foundation of China (NSFC) and 4 grants from the Research Fund for the Control of Infectious Diseases (RFCID), as well as financial support from WHO, the Hospital Authority (via RFCID) and the Hong Kong Institution of Engineers. The team published 36 articles in reputable engineering and medicine journals. 1/3 of them have been cited more than 20 times (SCI), and the top one has been cited over 200 times.

Key peer-reviewed publications:

Yu ITS, Li Y, Wong TW, Tam W, Chan A, Lee JHW, Leung DYC and Ho T (2004). Evidence of airborne transmission of the severe acute respiratory syndrome virus. *New England Journal of Medicine*, 350, 1731-1739.

Li Y, Huang X, Yu ITS, Wong TW and Qian H (2005). Role of air distribution in SARS transmission during the largest nosocomial outbreak in Hong Kong. *Indoor Air*, 15:83-95. (Received the Best Paper Award of Indoor Air Journal 2005-2007)

Li Y, GM Leung, JW Tang, X Yang, CYH Chao, JZ Lin, JW Lu, PV Nielsen, J Niu, H Qian, AC Sleight; H-J J Su, J Sundell, TW Wong, PL Yuen (2007). Role of ventilation in airborne transmission of infectious agents in the built environment – a multidisciplinary systematic review. *Indoor Air*, 17 (1), 2-18.

Xie, XJ, Li Y, Sun HQ and Liu L (2009). Exhaled droplets due to talking and coughing. *Journal of The Royal Society Interface*, 6: S703-S714.

Qian H, Li Y, Seto WH, Ching P, Ching WH and Sun H (2010). Natural ventilation for reducing airborne infection in hospitals. *Building and Environment*, 45, 559–565.

Qian H and Li Y (2010). Removal of exhaled particles by ventilation and deposition in a multibed airborne infection isolation room. *Indoor Air*, 20 (4), 284-297. (Received the Best Paper Award of Indoor Air Journal 2008-2010)

Selected external grant funding:

1. Dispersion and ventilation control of exhalation pollutants in hospital wards (HKU 7115/04E)
 Funding Scheme: GRF
 Principal Investigator: Professor Yuguo Li
 Period: 2004-2007
 Amount Awarded: HK\$380,047
2. BioPassVent - a theory of enclosure ventilation for purging combined pollutants (HKU 7150/06E)
 Funding Scheme: GRF

	Principal Investigator: Professor Yuguo Li
	Period: 2006-2009
	Amount Awarded: HK\$884,850
3.	ConnectVent - Ventilation of "connected" indoor environments in controlling airborne disease transmission (HKU 714608E)
	Funding Scheme: GRF
	Principal Investigator: Professor Yuguo Li
	Period: 2008-2010
	Amount Awarded: HK\$327,937
4.	Proximity effect - Exploring short-range and long-range airborne routes of expiratory exposure between people in indoor environment (HKU 7142/12)
	Funding Scheme: GRF
	Principal Investigator: Professor Yuguo Li
	Period: 2012-2015
	Amount Awarded: HK\$905,425
5.	Understanding droplets due to the use of nebulizers and respiratory activities (HA-NS-002)
	Funding Scheme: RFCID
	Principal Investigator: Professor Yuguo Li
	Period: 2004-2006
	Amount Awarded: HK\$798,360
6.	Evaluating factors that affect ventilation effectiveness in SARS wards (HA-NS-003)
	Funding Scheme: RFCID
	Principal Investigator: Professor Yuguo Li
	Period: 2004-2005
	Amount Awarded: HK\$731,824
7.	NatVent: Use of natural ventilation as an infection control measure (HA-NS-006)
	Funding Scheme: RFCID
	Principal Investigator: Professor Yuguo Li
	Period: 2008-2011
	Amount Awarded: HK\$697,150
8.	WardVent: How movement and anteroom affect ventilation performance in a ward setting (HA-NS-007)
	Funding Scheme: RFCID
	Principal Investigator: Professor Yuguo Li
	Period: 2008-2011
	Amount Awarded: HK\$713,700

9. Formation of droplet nuclei and airborne exposure in hospital wards

Funding Scheme: NSFC
 Principal Investigator: Professor Yuguo Li
 Period: 2012-2015
 Amount Awarded: RMB850,000

4. Details of the Impact or Benefit

Through engagement processes that involve extensive interactions with the healthcare sector and medical and engineering professionals, the research of Professor Li’s team has achieved significant and global impact.

Based on their research findings, Professor Li’s team assisted WHO in drafting the ventilation chapter of its 2007 interim infection control guidelines and the tuberculosis control guidelines. Furthermore, the team led and developed the new WHO guidelines on natural ventilation for infection control in health-care settings in 2009, which have been particularly useful for application in resource-limited countries. The 2007 WHO guidelines have been translated into Arabic, French, Spanish and Bahasa Indonesia, and were widely used in the 2009 pandemic influenza management by WHO. The 2009 guidelines were also translated into French and Spanish.

Professor Li was invited as WHO’s temporary advisor and assisted the Indonesian Ministry of Health in reviewing the avian flu isolation room design in more than 20 hospitals.

Since 2006, about 1,500 infection control nurses and professionals from Hong Kong and other countries in the region have attended training lectures delivered by Professor Li, which he gives at least twice each year. The training lectures are organized by the Hong Kong Infection Control Nurses’ Association and have become regular events. Professor Li also co-ordinated part of the 2007 training course for the Centre for Health Protection (CHP) of the Department of Health, HKSAR Government. He is often invited by other engineering, infection control and occupational health associations to give keynote talks on ventilation control of infection in Hong Kong, Australia, USA, Taiwan, Korea, Japan, and Mainland China, etc. His talks have reached thousands of infection and engineering professionals worldwide.



Professor Li was a co-author of the position paper on airborne infection of the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE). He has been invited by ASHRAE as their Environmental Health Committee member to develop further research priority in hospital ventilation. He was also invited to be the 2012 ASHRAE Distinguished Lecturer to give talks to their local chapters worldwide on the issue of building ventilation for infection control. In 2013, he was invited to serve as a Member of the Scientific Committee on Infection Control of the CHP. The research continues and the results have had impacts around the world.

5. References to the Corroboration of Impact or Benefit

- **WHO Guidelines:**

- Infection prevention and control of epidemic- and pandemic-prone acute respiratory diseases in health care, WHO Interim Guidelines, June 2007:
http://www.who.int/csr/resources/publications/WHO_CDS_EPR_2007_6c.pdf
- Natural ventilation for infection control in health-care settings, WHO Guideline 2009:
http://www.who.int/water_sanitation_health/publications/natural_ventilation/en/

- **Award received:**

Professor Li received part of the 2010 National Science and Technology Advance Award (Second Prize).

- **Contributions to the Professions and Invited Presentations to External Groups:**

- Li, Y. (2005). Special Section on Engineering Control of Respiratory Infectious Diseases, *Hong Kong Institution of Engineers*.
- The regular twice per year training lectures on ventilation in health care settings for the Hong Kong Infection Control Nurses' Association since 2006
- Li, Y. 'Control of airborne/droplet-borne infectious disease in hospitals – where is engineering', invited talk, AGM of The Institute of Healthcare Engineering and Estate Management, Hong Kong Branch, March 28, 2006.
- Short Course on "Geospatial and Fluid Dynamics Modelling of Infectious Diseases" organized for the Centre for Health Protection (CHP), January 18-20,

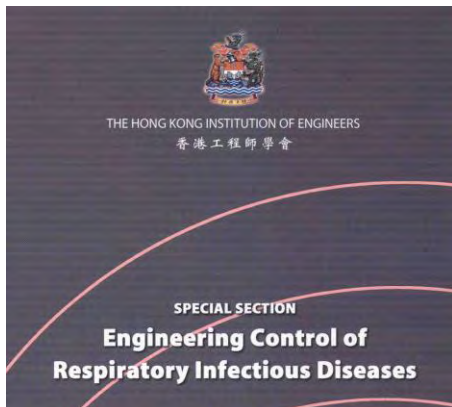
2007. Professor Li's contribution included 2 lectures and half-day hands-on sessions, and co-ordination of the efforts of fluid modeling.

• **Membership of External Bodies:**

- Professor Li has been invited by the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) as their Environmental Health Committee member to develop further research priority in hospital ventilation. He was also invited to be the 2012 ASHRAE Distinguished Lecturer to give talks to their local chapters worldwide on the issue of building ventilation for infection control.
- In 2013, he was invited to serve as a Member of the Scientific Committee on Infection Control of the CHP.

• **Media Coverage:**

The studies on the isolation room and Amoy Garden outbreak were reported widely in local and international media.



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IMPACT CASE HISTORY

Paving the Way for Policy Changes and New Legislation for Animal Welfare in Hong Kong

1. Summary

Research done by Ms Amanda Whitfort of The University of Hong Kong has brought to light the serious inadequacies in Hong Kong's laws for the protection of animals. Hong Kong laws in this area, enacted in 1935, are seriously outdated: they are concerned with prevention of cruelty rather than the promotion of a duty of care, and typically cruelty cannot be proven until harm to the animal has already been done.



Her review on this previously neglected area has generated a lot of public discussions and more importantly, has sparked off policy changes and new legislation. It is the first review of its kind in Hong Kong and has profound policy implications and clear impact on society. It also involves very active knowledge exchange with the professions and the community.

2. Underpinning Research

Ms Amanda Whitfort, Associate Professor in the Department of Professional Legal Education, Faculty of Law, is the leading authority on Animal Welfare Law in Hong Kong. In 2008 she was awarded a Public Policy Research (PPR) grant by the Research Grants Council to provide a comparative review of the animal welfare laws of Hong Kong. Hong Kong's animal welfare laws were drafted in the 1930's and a review of current law was timely. She successfully completed this review in 2010, in collaboration with Dr Fiona M Woodhouse, Deputy Director (Welfare) of the Society for Prevention of Cruelty to Animals (Hong Kong) [SPCA (HK)].

The review found Hong Kong's anti-cruelty legislation lacks the necessary power to

assist animals in danger of suffering and abuse. The law, as it now stands, was enacted in 1935, and can only be enforced against an owner where an animal has already been the victim of an overt act of cruelty. Currently, nothing can be done under the law to protect animals in serious danger of suffering, unless or until they are seriously harmed. The authors recommended significant reform to the anti-cruelty laws, through the introduction of a new Animal Welfare Ordinance, which would impose on owners a positive duty to care properly for their animals. Such a law would not only protect animals which have already been harmed but also protect those animals in serious danger of harm, if the circumstances in which they are being kept do not change.

The review also found that licensing conditions for pet shops are seriously out of date with modern welfare science, when compared with those imposed in other common law jurisdictions, including Singapore. Animal traders need not demonstrate any suitability for caring for animals, or provide animal welfare training to their staff. The Agricultural, Fisheries and Conservation Department (AFCD) has no power to revoke an animal trader's licence even if a trader has been convicted of an animal cruelty offence.

The review noted that there are currently only two licensed breeders in Hong Kong, with the remaining animals offered for sale coming from hobby breeders or from import dealers. The continued lack of legislation controlling hobby breeders allows animals of dubious origin and health to be widely sold throughout the territory.

The review rejected any legal impediments to a government approved Trap-Neuter-Return programme (TNR) for feral dogs in Hong Kong and recommended this method as the only humane way to deal with the problem. TNR programmes are supported by World Health Organization (WHO) data and the OIE (World Organisation for Animal Health), and are utilized effectively for managing feral or community dog populations in other countries.

The authors also uncovered serious failures, at local slaughterhouses, on farms and in live food wet markets to meet animal welfare standards prescribed by the OIE Terrestrial Animal Health Code 2009 (Slaughter of Animals), to which China is a signatory.

The report showed that sentences had not changed since the maximum penalty was increased in 2006 to three years in prison and a HK\$200,000 fine, from the old standard of six months in prison and a HK\$5,000 fine.

Throughout the 180-page review, the authors provided recommendations for extensive amendment to laws, regulations and codes of practice affecting the welfare of animals kept as pets, sold for food, used for experimentation in laboratories and living wild in Hong Kong.

3. References to the Research

Key publications:

Whitfort, A.S. *Halsbury's Laws of Hong Kong*, 'Animals', Vol 1(2), 2008, v. 1 n. 2: 83-213 (re-issued and updated by author in 2013).

Whitfort, A.S. 'Advancing Animal Welfare Laws in Hong Kong', *Australian Animal Protection Law Journal*, 2009, v. 2: 65-78 (peer reviewed).

Whitfort, A.S., and Woodhouse, F.M. *Review of Animal Welfare Legislation in Hong Kong*, June 2010.

Whitfort, A.S. Evaluating China's Draft Animal Protection Law, *The Sydney Law Review*, 2013, v. 34:347-370 (peer reviewed).

Selected external grant funding:

1. Review of animal welfare legislation in Hong Kong (HKU 7010-PPR-5)

Funding Scheme:	Public Policy Research
Principal Investigator:	Ms Amanda Whitfort
Period:	2008-2010
Amount Awarded:	HK\$497,000

4. Details of the Impact or Benefit

Ms Whitfort's project on animal welfare has a strong focus in humanity, a previously ignored area which requires not only advanced research but also public education. Since publication of the review report in June 2010, Ms Whitfort has made continuous effort to transfer animal welfare related legal knowledge to the professions, the Hong Kong Government and the general public.

Ms Whitfort has presented the review findings and recommendations to the Agricultural, Fisheries and Conservation Department (AFCD), the Department of Justice (DoJ), the Hong Kong Police, Legislative Council (LegCo) members and other stakeholders including veterinary staff and animal welfare officers, and at public lectures.

The Executive Director of SPCA (HK) has made the following comments on the importance and impact of Ms Whitfort's review of animal welfare legislation in

Hong Kong:

“This is the first review of its kind conducted in Hong Kong and its publication has been of immense value to society. It has created an excellent platform for positive change and much needed reform. We are currently utilising the review’s findings as a basis for dialogue with government and other animal welfare stakeholders. We have also disseminated the results of the review to our members and are using the findings as a means to marshal support for law reform.”

Since the press conference held by Ms Whitfort in July 2010, this previously neglected topic has attracted intense public interest. Ms Whitfort has provided input to numerous local and international news articles, radio talk back programmes and television exposes. Media publicity has focused on increasing public concern as to the adequacy of legislation available to address cases of cruelty to animals, and the Government is currently under pressure to update legislation. Ms Whitfort’s recommendations in relation to the pet trade have been adopted by the AFCD in their amendment to animal trader licensing conditions (due to be passed by LegCo into legislation later this year).

The review report was circulated to all LegCo members, and had been endorsed and adopted by six legislative parties who made a joint call to the Government (recorded in Hansard, November 3, 2010) to implement the HKU review’s findings in a new animal welfare policy for Hong Kong. Both the former and current Secretary for Food and Health have stated that the Government is committed to studying the HKU project’s findings further. The report has been extensively referred to in meetings of the LegCo Food and Environmental Hygiene Panel (chaired by Alan Leong SC).

In response to one of the key recommendations made in the review, the AFCD has announced the introduction of a trial “Trap-Neuter-Return” programme for managing the welfare of feral dogs and improved policies for the management of abandoned animals which allow easier adoption access for the public. In line with Ms Whitfort’s recommendations, the AFCD has begun to develop codes of practice for the care of companion animals, and is now meeting regularly with the police and SPCA (HK) to discuss animal welfare cases. The review report continues to serve as reference material for the Animal Welfare Advisory Group’s Legal Working Group of AFCD and LegCo.

The Department of Justice is proactively reviewing sentences for animal cruelty convictions, and Ms Whitfort has participated in training senior prosecutors to present animal prosecutions more effectively.

Ms Whitfort has also integrated her research into teaching and learning. She has developed and began teaching a Masters in Law course in Animal Law and Rights at the University in 2008, which is the first internationally focused Animal Law course in Asia.

Ms Whitfort's pioneering work for Hong Kong has not only increased public awareness in the poor state of Hong Kong's animal welfare but also sparked off policy changes and new legislation. It has profound policy implications and clear impact on society.

5. References to the Corroboration of Impact or Benefit

- **Statement of support** from the Executive Director of the Society for Prevention of Cruelty to Animals (Hong Kong) [SPCA (HK)] is available for corroboration purpose.
- **Media Coverage:**
 - The review findings and recommendations were extensively covered in local newspapers and online news media.
 - Facebook support pages have since been set up by members of the public to campaign for the recommendations.
- **Membership of External Bodies:**
 - Ms Whitfort was invited to serve on the Hong Kong Government's Legal Advisory Group to the Agriculture Fisheries and Conservation Department.
 - Ms Whitfort is elected chair of Hong Kong Lawyers for Animals (a pro bono legal advisory service).
 - Ms Whitfort was invited to chair the SPCA (HK) Legal Working Party.
- **Invited Presentations to External Groups:**

Ms Whitfort has given invited presentations to the AFCD Animal Welfare Advisory Group, the Department of Justice Senior Prosecutors, the Hong Kong Police, the City University of Hong Kong School of Biological Science (via a public workshop for Laboratory Animal Researchers), SPCA veterinary surgeons, nursing staff and Inspectorate, as well as public lectures at The University of Hong Kong and the SPCA (HK).

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IMPACT CASE HISTORY

A Series of Books on Important Paediatric Diseases for Patient Empowerment and Public Education

1. Summary

The team led by Professor Yu-lung Lau of The University of Hong Kong has transferred their research excellence in paediatric diseases not only to clinical practice but also to the public through a structured pathway involving on-going collaborations with patients’ organizations, volunteers in the healthcare sector, and publishers, etc, to translate their research findings in layman’s language and disseminate the knowledge in multiple channels. They have produced a series of illustrated books in Chinese on important paediatric diseases together with DVDs, and delivered book talks, public lectures and press conferences to empower patients, their families and the public, helping them understand common paediatric diseases and helping parents manage their children’s health.

With the well engineered content focusing on the symptoms and management of common paediatric diseases, the book series is an invaluable tool and accurate source for public education. The book series also increases public awareness of the existing problems in our environment that affect child health, and this will contribute to public debate and potential changes in public health policies.



2. Underpinning Research

This public education project flows from the research conducted by the team led by Professor Yu-lung Lau, Doris Zimmern Professor in Community Child Health and Chair Professor in Paediatrics, HKU Li Ka Shing Faculty of Medicine. Key team members include Dr So-lun Lee, Dr Tsz-leung Lee and Dr Hok-kung Ho of the Department of Paediatrics and Adolescent Medicine, Queen Mary Hospital.

Professor Lau's main research interests include primary immunodeficiencies, genetics in childhood and immunological diseases, developmental and viral immunology, as well as control of childhood infectious diseases. His research team has contributed significantly to the understanding of how pathogens, such as the influenza virus, cause disease, and possible strategies to control them.

Professor Lau's team participated in an international collaborative study of asthma and allergies in childhood in mid 1990s and mid 2000. The results confirmed their clinical observation that the prevalence of allergic rhinitis in children in Hong Kong was rising. As for asthma, the overall prevalence did not increase but there was an increasing trend of cases with more severe asthma symptoms.

Following that, they conducted another study which showed that there was association between air pollution and asthma admission among children in Hong Kong. This study was also the first study in the world that showed the relationship between asthma admission with PM_{2.5} ultrafine particles, which has now been recognized as an important air pollutant among different parts of the world.

Professor Lau was then invited by the Department of Health of the HKSAR Government to conduct the first child health survey in Hong Kong. The 'Child Health Survey 2005-2006' provided important information for child health policy in the future. It revealed that **the top five most prevalent paediatric diseases are visual problem, allergic rhinitis, eczema, food allergy, and asthma.**

Respiratory illness/common cold ranked as the top prevalent acute condition in the Child Health Survey. While the pre-existing evidence of the significant association between common cold/influenza with asthma was well recognized, Professor Lau's team considered that the evidence was not very convincing during their day-in and day-out clinical practice. They therefore conducted another study to look at the effect of cold or respiratory illness on asthma exacerbation in the local children population. After a prospective cohort study, they concluded that not all viral infections in children with asthma would lead to an asthma exacerbation.

The researchers turned to study other important local factors that might account for that result. They studied the connection of third-hand smoking with childhood asthma, allergic rhinitis and eczema, and found that compared with children of non-

smoking mothers that did not expose to second-hand smoking during pregnancy (reference group), children of non-smoking mothers that were exposed to second-hand smoking during pregnancy had significantly increased risk of wheeze ever, current wheeze, allergic rhinitis ever and eczema ever, and had marginally increased risk of asthma ever. Children of mothers who smoked during pregnancy were significantly associated with asthma ever, wheeze ever and current wheeze but not with allergic rhinitis ever or eczema ever.

The information arising from all the above research provides the team with insightful ideas about the series of books on important paediatric diseases that they launched in 2009.

3. References to the Research

Key publications:

Lee SL, Wong W, **Lau YL**. Increasing prevalence of allergic rhinitis but not asthma among children in Hong Kong from 1995 to 2001 (Phase 3 International study of asthma and allergies in childhood). *Pediatric Allergy Immunology* 2004; 15: 72-78 (peer-reviewed).

Lee SL, Wong WH, **Lau YL**. Association between air pollution and asthma admission among children in Hong Kong. *Clinical and Experimental Allergy* 2006; 36(9): 1138-46 (peer-reviewed).

Department of Paediatrics and Adolescent Medicine, and School of Public Health, The University of Hong Kong. Child Health Survey 2005-2006, commissioned by the Department of Health, December 2009.

So-lun Lee, Shui-seng Susan Chiu, Peiris Joseph S. Malik, Kwok-hung Chan, Hing-sang Wilfred Wong, **Yu-lung Lau**. Is respiratory viral infection really an important trigger of asthma exacerbations in children? *European Journal of Pediatrics* 2011; 170 (10): 1317-1324 (peer-reviewed).

Ho MH, Lee SL, Wong WH, Ip P, **Lau YL**. Prevalence of self-reported food allergy in Hong Kong children and teens - a population survey. *Asian Pac J Allergy Immunol.* 2012 Dec; 30(4): 275-84 (peer-reviewed).

Lee SL, Lam TH, Leung TH, Wong WH, Schooling M, Leung GM, **Lau YL**. Foetal exposure to maternal passive smoking is associated with childhood asthma, allergic rhinitis and eczema. *Scientific World Journal* 2012; 1-9 (peer-reviewed).

Selected external grant funding:

Paediatric Immunology and Allergy Service

Funding Scheme: The Shun Tak District Min Yuen Tong

Principal Investigator: Dr HK Ho/ Professor YL Lau

Period: 2011

Amount Awarded: HK\$500,000

4. Details of the Impact or Benefit

Professor Lau and his team strongly believe in patient empowerment, which has become an important integral part in the management of many chronic health conditions. Treating sick children requires more than the expertise of doctors and nurses. Parents and even the community need to support the children too by minimizing irritants and exposure to dangers, particularly for chronic diseases such as asthma or food allergies. Professor Lau's team has therefore launched a book series in Chinese to explain common childhood illnesses in simple terms and to promote awareness. They work with parents' groups to address medical and practical issues in the books, drawing on clinical and research expertise as well as the parents' own experience. Six illustrated books have been published since 2009, covering the topics of eczema, food allergies, rheumatic diseases, allergic rhinitis, newborn, and childhood asthma.

Through this project, Professor Lau's team has transferred their research excellence on paediatric diseases effectively and continuously to the public via multiple channels, including not only the books and DVDs, but also book talks, public lectures and press conferences.

Several thousand copies have been sold and plans are underway to publish the books in Taiwan and possibly Mainland China, and distribute them to Singapore. The book on eczema was sold out and has been reprinted.

The books have received very positive feedback from the patients' organizations and parents' groups. The families and the children now have access to credible and easy-to-understand information to help grasp the nature of the children's illness, how to choose medication, how they should manage the illness at home, when their illness is under control and when it is not, and when they need to seek help. This enables them to take charge of their health. As an example, one of the parents has made the following comments:

“My friend recommended the two books on eczema and food allergies from ‘The Paediatric Disease You Must Learn’ series to me when I thought I was so helpless in Hong Kong with my daughter having the

above two physical conditions.

...

After I got hold of the two books, the first thing I did after I read through them was to gather my family together and show them the CD's. After watching, the family members, especially the seniors, can understand the conditions of my daughter when she is not feeling well."

The Chairman of the Hong Kong Allergy Association had the following comments:

"These works are tremendous achievements in Hong Kong, and first of its kind (with) both the titles and the format that a DVD is included in each book. These books have provided a lot of valid information, real life experience and cleared up many misunderstandings ..."

The project has now become a continuing enterprise with structured pathway for the production. Through engaging various partners of over hundreds of individuals and many organisations, Professor Lau's team has formed a very robust alliance providing a sustainable model for the project to achieve the purposes of patient empowerment, public education and influence on public health policies.

The initial funding was solicited from charities with missions in helping children, including Children's Catastrophic Disease Foundation, Providence Foundation and South China Morning Post Operation Santa Claus. After securing funding, cross-sectorial collaboration from volunteers including paediatricians, nurses, therapists, school teachers, patients and families, as well as their support groups was formed to plan the content of the books and DVDs. The patients' organizations involved include the Hong Kong Allergy Association and the Hong Kong Paediatric Rheumatism Association. A production team from Action Communication helps produce the DVDs which document the patients' stories reflecting their personal experience, with doctors and allied health workers narrating the basics of these paediatric diseases. Cartoon painters help with the illustrations accompanying the text. The phraseology of the text has been meticulously edited to ensure lay public can easily understand. Forms Publications (HK) Co. Ltd., a subsidiary of Sino United Publishing (Holdings) Limited, shares the team's vision and has helped promote the book series. The governance of the project rests with the University, and the revenues generated from the book sales are returned to a fund for future production.

This project also contributes to increase in public awareness that some of the diseases are about lifestyle or environmental issues, so parents need to know how to control their home environment and become aware of the importance of persuading the government to make the general environment more friendly for their children's health. The project seeks to influence public health policies by a persistent effort to disseminate research findings and alert the public and the government of the issues that have implications on child health, such as the need to have better food labeling

for food allergies, and control cigarette smoke to get better air quality for children who have asthma and allergic rhinitis, etc.

5. References to the Corroboration of Impact or Benefit

- **Statements of support** from the following are available for corroboration purpose:

- Action Communication
- Forms Publications (HK) Co. Ltd.
- South China Morning Post Operation Santa Claus
- Hong Kong Paediatric Rheumatism Association
- The Hong Kong Allergy Association
- A parent of a child with eczema and food allergies

- The book on eczema was sold out and has been reprinted.

- **Media Coverage:**

The series of books had been extensively covered in local newspapers and online news media.

THE UNIVERSITY OF HONG KONG

IMPACT CASE HISTORY

Transforming the Learning Experience of Students with Reading and Writing Difficulties and Empowering Teachers and Frontline Professionals

1. Summary

Around 10% of the school population in Hong Kong has specific learning difficulties (SpLD) in reading and writing. To develop evidence-based support for children with SpLD, the Hong Kong Jockey Club Charities Trust funded an 8-year project (2006-2014), the READ & WRITE Network.

Led by Professor Connie Suk-han Ho, the HKU project team was responsible for the development of standardized assessment tools for students from preschool to secondary school levels, and a school-based Tiered Intervention Model with evidence-based curriculum and computerized assessment system for primary school children in Hong Kong.

Many of the assessment instruments developed by this project are the first standardized Chinese screening and assessment instruments for learning difficulties world-wide. They have become the practical standard used by all schools and professional psychologists in Hong Kong. With the evidence of promising progress for students with SpLD, the Education Bureau (EDB) decided to make a long-term commitment of incorporating the outcomes of this project into the various EDB sections.



2. Underpinning Research

Around 10% of the school population in Hong Kong has specific learning difficulties in reading and writing (i.e. dyslexia). Without early diagnosis and effective intervention, reading difficulties put children at risk for academic failure, school anxiety, and drop-out from school, etc. However, in existing local school settings, there is a lack of effective identification tools for screening and assessing children with SpLD and a lack of a comprehensive support model that incorporates regular monitoring practices with quality Chinese language teaching and learning. Effective assessment and support models need to draw upon research knowledge on the cognitive profiles of students with SpLD at different ages and the core components for learning to read Chinese.

Since 2006, Professor Connie Suk-han Ho, Professor in the Department of Psychology, Faculty of Social Sciences, has served as the principal investigator of the READ & WRITE project, developing evidence-based support to children with SpLD in Hong Kong. There are several sub-projects including basic research on the literacy development of children from preschool to senior primary levels, development of assessment tools and learning packages, as well as a school-based support model to help needy children from preschool to adolescent period. In addition, the project develops programmes for teacher training and parent support. Collaborators in this project include HKU, the Chinese University of Hong Kong, EDB, Heep Hong Society for Handicapped Children, and Society of Boys' Centre.

This project has generated important academic and educational publications, including 14 journal papers published or in press, 1 book chapter, 7 standardized screening and assessment tools with local norms, and 10 training-related curricula and packages for Chinese language learning that support children with SpLD.

Major outcomes and the underpinning research of the project include:

Pre-primary School Level

Research on developmental dyslexia has found that as early as the preschool period, children with reading disability have discrepant academic performance in reading and grade level expectation as compared to their peers, and such difficulties would persist into adults. Early identification and early intervention have demonstrated to be essential in reducing the adverse effect of dyslexia. In view of this, Professor Ho and her team have developed a standardized screening tool for kindergarten teachers and professionals in the field to identify preschool children at-risk for reading difficulties, which in turn allows early intervention to take place.

Primary School Level

With the traditional “wait-to-fail” model, students’ difficulties are normally discovered after they have low achievement in learning Chinese for some years and provision of timely and preventive intervention is difficult. In addition, the approach to reading instruction in Hong Kong is mainly through learning a large number of passages or texts, and there is no systematic way to teach basic language skills. Professor Ho’s approach emphasizes that learning basic language skills systematically is important for all children but especially helpful for low achievers and dyslexic children. Based on the “response-to-intervention” approach, Professor Ho and her team have developed a Tiered Intervention Model for Chinese language learning for junior primary school children in Hong Kong. The model includes 3 tiers:

- Tier 1: Whole-class quality core reading instruction for all students
- Tier 2: Small-group supplemental instruction for low achievers
- Tier 3: Individualized intensive instruction for dyslexic readers

The development of the Tiered Intervention Model consists of a Model Development (2006-2009) and a Model Implementation Phase (2009-2011). During the second phase, over 35 local primary schools put the Tiered Intervention Model into practice by integrating the model with the school-based curriculum.

3. References to the Research

Key peer-reviewed publications:

Chan, D.W., Ho, C. S.-H., Chung, K. K.-H., Tsang, S.-M., & Lee, S.-H. (2010). Teachers' Checklist on Reading-Related Behavioral Characteristics of Chinese Primary Students: A Rasch Measurement Model Analysis. *Australian Journal of Learning Difficulties*, 15: 2, 151-170.

Chik, P. P.-M., Ho, C. S.-H., Yeung, P.-S., Wong, H. Y.-K., Chan, D. W., Chung, K. K.-H., & Lo, L.-Y. (2010). Contribution of discourse and morphosyntax skills to reading comprehension in Chinese dyslexic and typically developing children. *Annals of Dyslexia*. DOI 10.1007/s11881-010-0045-6

Chung, K. K.-H., Ho, C. S.-H., Chan, D.W., Tsang, S.-M., & Lee, S.-H. (2010). Cognitive profiles of Chinese adolescents with dyslexia. *Dyslexia*, 16, 2-23.

Chung, K. K.-H., Ho, C. S.-H., Chan, D.W, Tsang, S.-M., & Lee, S.-H. (2010). Cognitive skills and literacy performance of Chinese adolescents with and without dyslexia. *Reading and Writing*. (published online, 10.1007/s11145-010-9227 -1)

Chik, P. P.-M., **Ho, C. S.-H.**, Yeung, P.-S., Chan, D. W., Chung, K. K.-H., Luan, H., Lo, L.-Y., & Lau, W (2011). Syntactic skills in sentence reading among Chinese elementary school children. *Reading and Writing*. DOI: 10.1007/s11145-010-9293-4

Ho, C. S.-H., Wong, H. Y.-K., Yeung, P.-S., Chan, D. W., Chung, K. K.-H., Lo, S.-C., & Luan, H. (2011). The core components of reading instruction in Chinese. *Reading and Writing*. DOI: 10.1007/s11145-011-9303-1

Yeung, P.-S., **Ho, C. S.-H.**, Chik, P. P.-M., Lo, L.-Y., Luan, H., Chan, D.W., & Chung, K. K.-H. (2011). Reading and spelling Chinese among beginning readers: What skills make a difference? *Scientific Study of Reading*. DOI: 10.1080/10888438.2010.482149

Yeung, P.-S., **Ho, C. S.-H.**, Chan, D. W., & Chung, K. K.-H. (2012). Modeling the relationships between cognitive-linguistic skills and writing in Chinese among elementary grades students. *Reading and Writing*. DOI: 10.1007/s11145-012-9411-6

Ching, B. H.-H. , **Ho, C. S.-H.**, Chan, D. W., Chung, K. K.-H., & Lo, L.-Y. (2013). Behavioral characteristics of Chinese adolescents with dyslexia: The use of teachers' behavior checklist in Hong Kong. *Applied Psycholinguistics*. DOI: 10.1017/S0142716413000179

Yeung, P.-S., **Ho, C. S.-H.**, Chan, D. W., Chung, K. K.-H., & Wong, Y.-K. (2013). A model of reading comprehension in Chinese elementary school children. *Learning and Individual Differences*, 25, 55-66. DOI: <http://dx.doi.org/10.1016/j.lindif.2013.03.004>

Selected external grant funding:

1. Longitudinal predictors of literacy problems in Chinese children at family risk of developmental dyslexia (HKU 7212/04H)
 Funding Scheme: General Research Fund (GRF) of Research Grants Council
 Principal Investigator: Professor Connie Suk-han Ho
 Period: 2004-2007
 Amount Awarded: HK\$800,310
2. READ & WRITE: A Jockey Club Learning Support Network
 Principal Investigator: Professor Connie Suk-han Ho
 Period: 2006-2013
 Amount Awarded: HK\$ 48,522,131
3. Specific language impairment (SLI) and dyslexia in Cantonese-Chinese: Co-morbidity and underlying deficits (HKU 753308H)
 Funding Scheme: GRF
 Principal Investigator: Dr Anita M Y Wong (Professor Connie Ho as Co-Investigator)

Period:	2008-2010
Amount Awarded:	HK\$799,810

4. Details of the Impact or Benefit

The achievements of the READ & WRITE project, covering pre-primary, primary and secondary school levels, have brought long-lasting impact on the education system as well as the community.

Development of Standardized Screening and Assessment Tools

Standardized screening and assessment tools have been developed to help identify students at-risk for SpLD more effectively and efficiently. Many of the assessment instruments developed by Professor Ho and her team are the first standardized Chinese screening and assessment instruments for learning difficulties world-wide. Among the screening tools, web-based versions have recently been developed for the Behaviour Checklists for screening primary school and secondary school students with SpLD in Hong Kong. This helps to make the screening tools more accessible and convenient for school teachers. These tools have become the practical standard used by schools and professional psychologists in Hong Kong. The evidence-based practices of identifying at-risk children and intervening of learning difficulties have exemplified how good science can be applied to meet real-world challenges.

Development of a School-based Tiered Intervention Model

With the comprehensive quality curriculum in Chinese language learning as well as the standardized computerized assessment system, the identification and support system for low achievers and dyslexic children has been tremendously improved. In particular, students from over 120 local primary schools at different levels have experienced the intervention curriculum for at least one year. About 25% of poor or dyslexic readers in the remedial groups, who originally fell below the territory-wide benchmark, reached the benchmark of Chinese literacy after receiving one to two years of intervention. This effect size is remarkable in intervention research for developmental disabilities. In view of the positive outcomes achieved by the project, EDB decided to make a long-term commitment of incorporating the model into more local primary schools. Consequently, the Tiered Intervention Model is expected to be implemented in over 200 primary schools in Hong Kong from 2011 to 2016 with the hope of making it a routine practice for language learning for all local schools in the long run.

Professional Support and Training for Teachers and Frontline Professionals

Apart from developing and publishing identification and intervention tools, many

teachers, psychologists, social workers, and parents have been empowered throughout this project. Over 200 local kindergartens, primary schools and secondary schools, around 20 NGOs and 10 Government sections have effectively been engaged in the implementation of the programmes and curricula developed by the various sub-projects.

Numerous workshops, preparation meetings, class observations and consultation meetings were held to ensure full understanding and appropriate practice of the partners.

In addition, school principals and teachers were trained on effective teaching of children with SpLD in Chinese. There is positive impact on teachers' awareness and attitude towards students with dyslexia. Educational psychologists, School Development Officers, and many other officers of EDB have been trained to become effective support personnel in schools.

Public Awareness on Helping Students with Difficulties in Chinese Reading and Writing

Over 40 seminars were held; 11 TV programmes and a large number of newspaper reports have been produced to introduce the effective approaches of helping children with reading difficulties to the public.

The impact of this state-of-the-art research is likely to go beyond Hong Kong. For instance, a group of teachers and researchers from Taiwan have come to the project centre to learn about the approach of teaching SpLD children to read Chinese. While there are considerable resources for diagnosing and supporting children with dyslexia in countries using alphabetic languages, the READ and WRITE project offers unique evidence-based effective resources for children with learning difficulties in Chinese. The resources are likely to contribute to educational practices in Chinese language education worldwide.

5. References to the Corroboration of Impact or Benefit

- **Video clips of interviews of different partners and stakeholders of the Tiered Intervention Model sub-project**, including school headmasters, teachers, an educational psychologist, EDB colleagues, parents, and students, are available for corroboration purpose.
- Professor Connie Ho has given **numerous public seminars** on the project since 2007.
- **Media Coverage:**

The various outcomes of the project have been extensively covered by local newspapers since 2006. Professor Ho and her team were interviewed in 11 TV programmes on the project.

- **Dedicated Websites:**

- Number of visitors to the READ & WRITE project website:
<http://www.psychology.hku.hk/rwjclsn/index.html>
- Number of visitors to the website of the Hong Kong Specific Learning Difficulties Research Team and registered users of the assessment tools:
<http://www.psychology.hku.hk/hksld/index.html>



Knowledge Exchange

The University of Hong Kong November 2012 Issue 3 NEWSLETTER

Let me extend a warm welcome to you at the start of the 2012-13 academic year – the double cohort year which marks a milestone in the history of the University and higher education in Hong Kong.

We're also at the start of the new triennium and I'm very happy that in this issue, the Vice-Chancellor shares his thoughts on knowledge exchange with us.

In this issue you will find more success stories – the achievements of our colleagues who received the Knowledge Exchange Awards 2012 are inspirational.

Professor Paul K H Tam

Pro-Vice-Chancellor (Research) & Director, Knowledge Exchange Office



A Culture Change

Knowledge exchange is not a new thing at HKU. It has simply been brought out into the light and given its proper status as one of three prongs – the others being education and research – that define our mission. If we do not share our knowledge with industry and society, and create ties with the community so our students have more opportunities to learn, we are not making the most of our work.

Yet there are questions being asked about knowledge exchange both within and outside the University.

Does it mean *more* work? This is an understandable question given the demands that academics in all of Hong Kong's universities face this year. The double cohort of first-year students in September means the University as a whole is involved in more teaching. Our scholars are also all active in research. The elevation of knowledge exchange seems, on the surface, to be an extra responsibility, but I think this is a misguided view.

Knowledge exchange is in fact closely intertwined with our academic activities. I strongly believe that all knowledge exchange should have an academic rationale – it is not simply a service to the community. Just like teaching and research, it is part of our culture. Our scholars therefore should be thinking day in and day out about how they can benefit society. Good knowledge exchange must be underpinned by our excellence in research or teaching.

All of our faculties have in one way or other embraced this idea. Our Technology Transfer Office also helps to bring our researchers' new scientific and technological discoveries to market by facilitating patents and licensing.

There are many examples of knowledge exchange, some of the best described in this newsletter. The key message is that knowledge exchange is a central part of our work and always has been.

There is another issue that bears consideration, though. What is the role of the *community* in knowledge exchange? From the University's perspective, we regard the community as partners because we both can benefit from knowledge exchange.



Successful knowledge exchange emerges from a culture that is built on relationships and an appreciation that we can work together for the betterment of society. It happens when a business or group in the community realizes they need academic input and turns to us for help. People need to be attuned to the value that we offer and we need to do more to make them aware of that. Knowledge exchange should not only be measured in terms of the number of projects and the money spent, as this is an incomplete view of the process.

We value partnerships with the community and encourage our faculties to develop

new partnerships and strengthen existing partnerships. An annual community day by each Faculty for sharing knowledge arising from research achievements and students' initiatives with their partners and donors may be a good idea.

Successful knowledge exchange also happens when we can contribute to public debate. The Hong Kong society is facing numerous challenges nowadays. Academics, being experts in their fields, are in a position to make significant contributions on civic and social issues. However, there currently are some impediments to that for researchers involved in government projects and consultancies, for instance, academics may not be able to publicly give their views on an issue if they serve on the government committee concerned given the confidentiality requirement. But I hope these can be addressed in future.

There are models adopted by other countries such as the US and Canada that could serve as references for the government to facilitate academics to contribute to public policy and debate. Surely a more open and wide-ranging examination of the issues society is facing will result in better outcomes.

HKU is here to serve the community through knowledge. And we should aim to achieve impact not only in Hong Kong but also to extend such impact to the Mainland and the region.

Education and research are the core activities for acquiring knowledge but unless we share this with the community, we will not have fulfilled our mission.

Professor Lap-Chee Tsui
Vice-Chancellor and President



Award Presentation Ceremony for
Excellence in
Teaching, Research &
Knowledge Exchange
2012

March 27, 2013 Wednesday
5:00 p.m.
Loke Yew Hall



KNOWLEDGE EXCHANGE AWARD

The Faculty Knowledge Exchange (KE) Award was introduced in 2011 in order to recognise each Faculty's outstanding KE accomplishment that has made demonstrable economic, social or cultural impacts to benefit the community, business / industry, or partner organisations. Individual Faculties have the flexibility to decide whether to conduct a Faculty KE Award exercise in a particular year, taking into account the Faculty's KE developments. Only one Award may be made by each participating Faculty in a year. The KE Award (Non-Faculty Unit) was introduced in 2012 for the independent centres, institutes and units of the University. Awards are open to individual full-time staff members on Terms of Service I; and teams led by a full-time staff member on Terms of Service I. Award winners receive a monetary award of HK\$50,000 to further their KE work.

Nominations in each Faculty were considered by an *Ad Hoc* Faculty KE Award Selection Committee chaired by the Dean, and members included the Faculty representative serving on the KE Working Group, one of the Associate Directors of the Knowledge Exchange Office (Professor John Bacon-Shone/ Professor Paul Cheung), and a member from outside the University. The selection process for the KE Award (Non-Faculty Unit) was similar.

The selection criteria included evidence of the KE project's link with excellence in research or in teaching and learning of HKU (i.e. quality of the knowledge); evidence of an effective engagement process with the non-academic sector(s); and evidence of demonstrable benefits to the community, business / industry, or partner organisations.

FACULTY KNOWLEDGE EXCHANGE AWARD**FACULTY OF ARCHITECTURE**

Mr John LIN Chun Han 林君翰先生
‘Taiping Bridge Renovation Project’

The historic 300-year-old bridge in Taiping village in Guizhou had suffered a collapsed arch in 2006. Mr John LIN Chun Han, Assistant Professor in the Department of Architecture, has turned what would normally be a straightforward repair project into a knowledge exchange opportunity to engage with the community in re-creating public space. The project combined pre-cast concrete techniques with traditional masonry construction, and it integrated both teaching and research. Students of the University were involved not only in the dialogue with the villagers and local government officials as well as in the design process, but they also participated in the manufacture and testing of new concrete prototypes. The project had strong community participation, involving collaboration with the Wu Zhi Qiao (Bridge to China) Charitable Foundation, government departments in the Mainland and the villagers. The project has received several international architectural awards. More importantly, the bridge, which was restored in 2009, has been revitalised as an important public space in the village.

FACULTY OF ARTS

(Exceptional approval granted for sharing of this Award in 2012.)

Dr Peter Anthony CUNICH 管沛德博士
‘Witness to War Project’

Hong Kong experienced terrible upheaval in the Second World War but personal accounts of these painful experiences have been scant. Led by Dr Peter Anthony CUNICH, Associate Professor in the Department of History, the ‘Witness to War Project’ involved students of the Canadian International School and the Chinese International School interviewing elderly family members about their war experiences and recording and transcribing the interviews. The best ones were selected by the Department of History for deposit in the University Archives. The archive of recorded interviews deposited at the University over the last six years, which has grown to 255, represents the largest collection of publicly available interview transcripts on the Second World War in East Asia, and second only to the Singapore Oral History Project in the wider region of Asia. The project has provided a much richer learning environment for the students and enabled them to gain an appreciation of the need for preservation of Hong Kong’s intangible heritage. The project has also inspired similar initiatives in other schools in Tokyo and Kuala Lumpur.

Dr SI Chung Mou 施仲謀博士
‘Incorporating Culture Elements into Chinese Language for
Schools in the Chinese Communities’

The study of Chinese in schools used to focus on language only, and lacked other essential elements such as literature, history, philosophy and culture. Dr SI Chung Mou, Associate Professor in the School of Chinese, introduced a new approach into school-based

learning in this eight-year project funded by the Education Bureau. In 2008, the project received the Quality Education Fund Project Award. Based on an extensive experimental teaching programme, this project has developed a series of ten books on Chinese culture, which are now available in Hong Kong, Macau, Mainland, Taiwan and overseas schools. The books have been published by the Peking University Press in both traditional and simplified Chinese versions. The Ministry of Education has also funded an English version to promote an understanding of Chinese culture to the rest of the world. The materials are also available on the learning website of this project to enable wide dissemination to benefit students and teachers internationally.

FACULTY OF BUSINESS AND ECONOMICS

Dr James Patrick VERE
 ‘Social Mobility and Economic Policy in Hong Kong’

Dr James Patrick VERE of the School of Economics and Finance was commissioned by the government to conduct a study on earnings mobility in 2005–06 and again in 2008–09. The findings have been widely circulated, both to the public and to various government committees, and presented in public conferences. Based on the studies, Dr Vere has played a key role in the deliberations and public debate leading to the statutory minimum wage in Hong Kong. He provided an independent background report and analysis of Hong Kong’s proposed minimum wage to the Provisional Minimum Wage Commission, which was subsequently circulated at the policy level of the government. It also led to opportunities for him to write editorials for newspapers to analyse the complicated issues that are of public concern. The impact of his work is substantial as it has informed public debate of a key piece of legislation that has benefited many underprivileged people.

FACULTY OF DENTISTRY

Professor Edward LO Chin Man 盧展民教授 (Leader), Dr Chaminda Jayampath SENEVIRATNE, Dr GAO Xiaoli 高曉莉博士, Professor JIN Lijian 金力堅教授, Professor Lakshman Perera SAMARANAYAKE 西門雅慨教授 and Dr Susan Margaret BRIDGES 喬素心博士
 ‘Enhancing Student Learning of Biological Sciences through Capacity Building of Secondary School Science Teachers’

Professor Edward LO Chin Man and his team members developed an innovative programme using dentistry as a context to facilitate science learning, especially biology and chemistry. Teaching materials were developed and a series of workshops was organised for secondary school teachers to improve their knowledge and skills in using innovative and interactive teaching methods that related to real-life dental problems. The workshops also attracted students of the participating schools and the Education Bureau. As dental examples, such as oral microorganisms and dental diseases, can be readily demonstrated, students effectively grasped the scientific concepts behind disease processes. The project’s

impact extended beyond enriching teaching and learning of science, as there was also increased oral health awareness.

FACULTY OF EDUCATION

Professor Thomas Mark BRAY 貝磊教授
 ‘Confronting the Shadow Education System:
 What Government Policies for What Private Tutoring?’

This project has the same title as a book written by Professor Thomas Mark BRAY, UNESCO Chair Professor in Comparative Education, which was published in 2009 by United Nations Educational, Scientific and Cultural Organization (UNESCO). Private supplementary tutoring is ubiquitous in Hong Kong, and has now become a global phenomenon. Such tutoring is widely called ‘shadow education’ because it mimics the regular system: as the curriculum changes in the schools, so it changes in the shadow. Shadow education has a backwash on regular schooling; and since shadow education requires payment of fees, it has implications for social inequalities. This book has been translated into 19 languages and has become a wake-up call to governments. The translations were done in partnership with local bodies responsible for dissemination and follow-up in their own countries. Professor Bray has given presentations on the topic in five continents, and has been commissioned by the European Union and Asian Development Bank to undertake further work.

FACULTY OF ENGINEERING

Professor LI Yuguo 李玉國教授 (Leader), Professor LEUNG Yiu Cheong 梁耀彰教授,
 Mr LAM Hong Nam 林康南先生, Dr QIAN Hua 錢華博士, Dr XIE Xiaojian 解曉健博士
 and Dr LIU Li 劉荔博士
 ‘Ventilation for Better Infection Control in Hospitals’

During the 2003 SARS (Severe Acute Respiratory Syndrome) outbreak, the community was perplexed about how the disease had spread within Amoy Gardens. Professor LI Yuguo in the Department of Mechanical Engineering participated in a Faculty of Engineering Team to produce a plausible airborne transmission explanation based on engineering principles. His team also constructed a SARS ward test room, measured how droplets dispersed, and demonstrated the basic principle of isolation ventilation to hundreds of medical doctors, nurses, engineers, health officials and media from Hong Kong and Asia. Their study was incorporated in the ventilation chapter of the 2007 World Health Organization (WHO) interim infection control guidelines. Professor Li also led the development of the new WHO 2009 natural ventilation guidelines. The 2007 guidelines were widely used in the 2009 pandemic influenza management by WHO. The 2009 guidelines have been particularly useful for application in resource-limited countries. Professor Li has also served as a WHO temporary advisor and assisted the Indonesian Ministry of Health in reviewing the avian flu isolation room design in more than 20 hospitals.

FACULTY OF LAW

Mr Thomas CHENG Kin Hon 鄭建韓先生
‘The Introduction of Competition Law in Hong Kong’

The Competition Ordinance was passed on June 14, 2012 by the Legislative Council to provide a legal framework to curb anti-competitive conduct in various sectors. Mr Thomas CHENG Kin Hon, Associate Professor in the Department of Law, has played a significant role in the introduction of competition law in Hong Kong. The government invited him to serve as a consultant in 2006 to advise on the drafting of the competition law. The Consumer Council, which has long advocated for such a law, also invited him to chair its Competition Policy Committee as well as the Working Group on the Competition Bill, and to help engage the public for support of a law in this area. Mr Cheng has also been active in media engagement, through which he has raised public awareness of the competition problems in Hong Kong and explained the need for a competition law in Hong Kong. He has made important contributions to securing the adoption of the Competition Bill, which has profound policy implications and long-term impact on society.

FACULTY OF SCIENCE

The Junior Science Institute Teaching Team 少年科學研習學院教學團隊 –
Dr HAU Chi Hang 侯智恒博士, Dr LIU Zhonghui 柳中暉博士,
Professor CHAN Lung Sang 陳龍生教授, Dr CHIU Hon Chim 招侃潛博士,
Dr NG Tuen Wai 吳端偉博士, Dr YUNG Siu Pang 翁紹鵬博士,
Professor TSANG Kai Man 曾啟文教授, Dr WONG Chi Wing 黃志榮博士,
Dr CHAN Kit Hung 陳杰雄博士, Dr TSING Nam Kiu 丁南僑博士,
Dr CHAN Yat Ming 陳一鳴博士, Dr LAU Yuk Kam 劉旭金博士,
Professor CHEUNG Wing Sum 張榮森教授, Dr HAN Guangyue 韓光躍博士,
Professor ZANG Wenan 臧文安教授, Dr CHING Wai Ki 程璋琪博士,
Dr TONG Pui Ling 湯佩玲博士, Dr Ella WONG Lai Ming 黃禮明博士,
Professor CHAN Wai Kin 陳偉鍵教授, Dr Clive LO Sze Chung 盧思聰博士,
Dr LAM Kwok Fai 林國輝博士, Dr Aleksandra DJURISIC,
Dr Samantha Jane BEVAN and Mr CHEUNG Sze Leung 張師良先生
‘HKU Junior Science Institute’

The Junior Science Institute (JSI) offers a series of hands-on programmes in different science disciplines all year round to provide participating secondary students with an enriched learning experience and to raise their awareness in thematic science issues. It is a group effort of professoriate staff and students of the Faculty of Science. 24 teachers from the six departments of the Faculty and the Department of Biochemistry together with science student ambassadors have been involved. Since its launch in 2009, the enrollment number continues to increase and there has been a lot of encouraging feedback from students. The JSI reaches out to 1,000 secondary school students every year, and has contributed to the promotion of science literacy in the community.

FACULTY OF SOCIAL SCIENCES

Professor Paul YIP Siu Fai 葉兆輝教授

‘Population-based Suicide Prevention Programme in the Community’

Based on cutting-edge research and evidence-based practices that follow internationally recognised standards set by the World Health Organization (WHO), Professor Paul YIP, Director of the Hong Kong Jockey Club Centre for Suicide Research and Prevention, and his dedicated team, have successfully implemented and advocated multi-pronged community-based suicide prevention programmes. They include means restriction of sales of charcoal in supermarkets, good practices in media reporting of suicide, installation of platform safety doors, use of social media, and school and web-based well-being programmes, which seek to empower, educate and connect the community to prevent suicides. There are strong community engagement, involving training of professionals in the social service sector, healthcare sector and police force as well as school teachers, projects for primary school students who are identified to be at risk, and dedicated websites on self-help. It is encouraging to witness the reduction of Hong Kong’s suicide rate by almost 30% between 2003 and 2010. The Centre has become a leading knowledge hub for suicide prevention in the region and is a strategic partner of WHO and the International Association for Suicide Prevention.

KNOWLEDGE EXCHANGE AWARD (NON-FACULTY UNIT)

Mr David Townsend PALMER 宗樹朝先生 (Leader), Mr Jack LO Chun Yue 盧震宇先生,
Mr Francis POON Wing Keung 潘永強先生, Miss LIU Zhaohua 劉昭華小姐,
Ms CHAN Siu Lin 陳小蓮女士, Ms Joan SIA Mee Lai 佘美麗女士 and
Miss Judy TSOU Wing Wai 周永慧小姐
Hub Team (University Libraries) 學術庫團隊 (大學圖書館)
‘The HKU Scholars Hub’

Launched in 2005, the HKU Scholars Hub (the Hub) is the institutional repository of the University of Hong Kong. Prior to this project, the rich information concerning the University’s research outputs and the achievements of researchers, being scattered in different silo systems, was neither visible nor available for public search. Led by Mr David PALMER, the Hub team at the University Libraries harvests the relevant data from various sources and presents them in search engine optimised (SEO) web pages. The Hub now contains centralised information on about 1,500 professorial staff at the University including their contact details, research interests, publications, patents, community service, research postgraduate student supervision and grants received. There is also a section on media contact indicating the topics and languages that the academic is proficient in. This project has significantly enhanced public access to the University’s research and made our researchers highly visible and easily searchable by potential collaborators and research postgraduate candidates. The Hub has had over one million view counts by mid-2012.

Faculty KE Awards 2013

Awardee	Extract of the Relevant Selection Committee's Comments on Impacts Achieved
<p>Faculty of Architecture:</p> <p>Mr Jason F. CARLOW (Assistant Professor, Department of Architecture)</p> <p>for Project: ArtAlive@Park2010, ArtAlive@Park2012</p>	<p>The project benefitted the public and showed high quality of knowledge sharing with various stakeholders. The KE impact was evident from the Leisure and Cultural Services Department's recent decision to further promote the event.</p>
<p>Faculty of Arts:</p> <p>Dr Olga A. ZAYTS (Assistant Professor, School of English)</p> <p>for Project: Language and Communication in Genetic Counselling Settings in Hong Kong and South Asia</p>	<p>The project highlighted how the manner in which information was communicated could influence decision-making in genetic counselling interactions and contributed to the emergence of healthcare communication practice and policy in Hong Kong. Healthcare practitioners from other countries in the region also participated in some of the workshops, thereby extending the project's reach. The project also raised public awareness about genetic disorders.</p>
<p>Faculty of Business and Economics:</p> <p>Dr Michael C.L. CHAU (Associate Professor, School of Business)</p> <p>for Project: Data Analytics for Blood Donation and Transfusion in Hong Kong</p>	<p>The project was an excellent example of sharing high quality research with the local community that yielded significant impact. As a result of the project's data mining study, the Red Cross could improve the result of blood donation. This project was very valuable, particularly in helping Hong Kong patients.</p>
<p>Faculty of Dentistry:</p> <p>Dr Yanqi YANG (Clinical Assistant Professor in Orthodontics) and her team (Dr Chun-Hung CHU [Clinical Associate Professor in Community and Family Dentistry], MA Kwan Ning, SO Stephanie Yuen Ting, WONG Yau Sing, LEE Pui Chung, ZHONG Chao, Janet CHAN, CHAN Tiffany Chi Lok, LI Tsz Yan, WONG Chi Kin Kenneth, CHOW Ka Chun Kenneth, YUNG Kai Hay Kenneth [BDS students, Faculty of Dentistry])</p> <p>for Project: Improving Children's Oral Health and Development by Terminating Poor Oral Habits and Promoting Healthy Ones</p>	<p>This project comprised two completed HKU Student KE Projects and an ongoing government-funded KE Project (from 2012 to present) based on research conducted in the local community over the past decade regarding preschool children's oral health and development. External funds to the tune of HK\$252,000 had been received by the principal and co-investigators for one arm of the project. The project was substantive, and had potential for sustainability and city-wide policy implications.</p>

<p>Faculty of Education:</p> <p>Dr Tammy Y. L. KWAN (Assistant Dean [School-University Partnerships] and Associate Professor, Division of Policy, Administration & Social Sciences Education)</p> <p>for Project: Achieving “Good Teaching Practice” by Student-Teachers, with Collaborative Support from Mentor-Teachers and University-Tutors: An Exemplary Demonstration of School-University Partnerships</p>	<p>This was a wide perspective project for promoting good practice in teaching and learning. The structure was well-planned and manageable. The impact was local and practical which would bring changes to schools.</p>
<p>Faculty of Engineering:</p> <p>Dr Kam Pui CHOW (Associate Professor, Department of Computer Science)</p> <p>for Project: Fighting High-Tech Crime in Cyberspace</p>	<p>The project demonstrated how excellence in research at the University could be applied to real problems which are of importance to the community. Dr Chow and his team had been working closely with local law enforcement agencies for over 10 years to develop technologies and tools to protect against cyberspace crime in Hong Kong. The team assisted the Hong Kong Police Force and the Customs and Excise Department in the deployment of the latest software systems to protect against Internet pirates using Cyberlockers (Cyberlocker Monitoring System) as well as data theft using P2P Foxy (FoxyMon), and to enable cyberspace safety patrol (Lineament IV). The impressive performance of these systems was recognized by the two aforementioned government departments for enhancing cyberspace safety in Hong Kong.</p>
<p>Faculty of Law:</p> <p>Professor Simon N.M. YOUNG (Professor, Department of Law)</p> <p>for Project: Human Rights Portal</p>	<p>The Human Rights Portal is a comprehensive and user-friendly website that provides public access to human rights materials produced by academics of the HKU Faculty of Law of HKU. The website made use of Google Analytics to give insight into how many people visited the Human Rights Portal worldwide, how visitors used the Portal, how they arrived at the website and how much time they spent on browsing it, etc. Such evidence showed its impact on community. It also involved very active knowledge exchange with the professions and the community.</p>

<p>Li Ka Shing Faculty of Medicine:</p> <p>Professor KWONG Yok-lam (Chui Fook-Chuen Professor in Molecular Medicine & Chair of Haematology and Oncology, Department of Medicine) and the Division of Haematology</p> <p>for Project: Multi-media Haematology Protocol: Haematology Protocol Book, iPad / iPhone App, Internet website</p>	<p>The Haematology Protocol book is the first hematology protocol launched in Hong Kong to share the knowledge of hematological diseases management, including treatment protocols, standard practices and references on drug dosages etc. Its content is very professional and it serves as guidance to medical practitioners as well as reference to patients and their families. The Haematology Protocol has been made available on multi-media platforms, through which the information can be kept up-to-date and accessible to not only haematologists but also general practitioners, patients and their families, as well as the general public.</p>
<p>Faculty of Science:</p> <p>Dr Jason C.S. PUN (Teaching Consultant, Department of Physics)</p> <p>for Project: Dimming the “Bright Pearl” - Informing the Public on Light Pollution</p>	<p>The project generated much publicity and the media was highly interested. It was disseminated to a diverse group of beneficiaries, including various professional societies, and successfully raised public awareness in the problem of light pollution. It has huge potential impact in the future legislation on light pollution.</p>

Note:

- The result of the 2013 Faculty KE Award exercise of the Faculty of Social Sciences is pending.
- The KE Award (Non-Faculty Unit) exercise is conducted on a biennial basis. The next exercise will be conducted in 2014.



THE UNIVERSITY OF HONG KONG THE REVIEW 2012



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TRANSFORMING SOCIETY THROUGH KNOWLEDGE

Universities are storehouses of knowledge and ideas that can benefit all of society. But how do we get these assets out to the community? This question is at the heart of Knowledge Exchange, also called KE.

HKU has made KE one of its three pillars alongside teaching and research and this has given us impetus to overcome some of the challenges involved – lack of time, the need to find partners, the need to understand what the community needs. The result of our efforts has been a mushrooming of KE projects.

Multiple Projects

Our academic staff and students have launched dozens of funded projects that are helping local schoolchildren, small businesses, remote communities, human rights campaigns, the elderly and urban neighbourhoods, to name a few. These efforts have been supported by a formal infrastructure of funding, training and publicity to facilitate KE. In 2011–12, for instance, we introduced a pilot KE funding scheme for student projects and recommended that KE contributions be recognised in the academic staff review process. KE has also become a factor in the faculty budgeting process. It is

hoped these measures will inspire more KE and raise our profile in the community.

KE in some form or other has always been practised at HKU, but for many years it was informal and not explicitly recognised. Academics might have launched community-based research projects but impacts were only evaluated in terms of publication, and funding often came from private donations only. The value of such work was not fully articulated and appreciated. HKU recognised this shortfall and in 2003 adopted a goal of 'partnering with society through knowledge' in its first five-year plan.

This paved the way for a more formal KE strategy and put us in a strong position when the University Grants Council (UGC) decided in 2009 to start funding what it called 'knowledge transfer'. Since then we have been building capacity and pushing the boundaries.

The University regards KE as something much broader than the typical focus on technology transfer. While that activity has great merit, it is generally limited to the sciences, engineering and medicine. We believe all of our faculties, including the arts and the humanities, possess knowledge that can benefit society. Our planning therefore has been based around

the expectation that every corner of the University will carry out KE.

In 2010–11 we provided funding support for each faculty to set up a formal KE unit. We also launched the Faculty KE Award scheme to honour outstanding accomplishments. These measures signalled the integral place that KE had in the University's mission. We then strengthened that signal in 2011–12 in two ways. First, as mentioned, KE became one of the key profile indicators in the annual recurrent budget allocation process for faculties and it was recommended to recognise KE contributions in the academic staff review process. And second, each faculty was required to enhance knowledge access by building its own KE website. These measures are helping to formalise KE and prod staff to consider it as part of their core activities.

Reaching Out

Apart from raising the stature of KE, the University has also dedicated itself to providing a support structure. KE is supported not only by the Knowledge Exchange Office and Technology Transfer Office, but also the KE unit in each faculty. These components work in partnership to provide training, publicity and encouragement for KE activities



'Sharing a Roasted Potato for Lunch' – Two refugee children photographed by student Hting Nan Htoi Awng while he was on service assignment in Myanmar (Burma)

in all areas of the University. In December 2011 we also took the lead in organising a KE conference with the seven other UGC-funded institutions in Hong Kong that was attended by more than 570 participants, including some from Mainland China, Macau, Japan, Indonesia and the UK. The Conference provided a platform to share best practices in KE and showcase our success stories.

Another, most crucial form of support is funding. We allocate most of the funding we receive for KE to the faculties for capacity building and to individual academic staff for impact projects. Some funding is used to develop institution-wide initiatives, such as the HKU Scholars Hub, an online repository with information on about 1,500 professorial staff, including their

contact details, research interests, publication lists, patents, community service and topics and languages in which they can comment in the media. The Hub is designed to make it easy for members of the public to discover research, potential research partners and experts, and by summer 2012 it had accumulated more than one million view counts.

Competitive Funding

For impact projects, we have set up a competitive funding scheme that awards up to \$100,000 per project. In 2011–12 we funded 46 projects led by academic staff and, under a pilot scheme, provided funding for 18 student-led KE projects. The latter will become a regular feature to help ensure all levels of the University embrace

the KE concept and have an opportunity to practise it.

There is still much room for growth in KE at HKU and we will continue to promote it vigorously on campus. We can do this more effectively if we better understand the impacts of KE in the community, so we are exploring mechanisms that can achieve this. Unlike other academic activities, KE cannot be measured by the number of publications, yet the outcome can still be far-reaching. By sharing our assets – our expertise and knowledge – more widely, we can help society to overcome problems and enhance material, human, social, cultural and environmental well-being.

A WINDOW ON HUMAN RIGHTS

A unique portal that offers a repository of information on human rights in Hong Kong, Mainland China and the world in English and Chinese has been launched at HKU.

The Human Rights Portal draws on the resources of the Centre for Comparative and Public Law (CCPL), which has extensive legal and political connections around the world and a large collection of articles, documents, videos, guides and manuals on human rights.

"The Law Faculty has long been a site for collecting human rights knowledge both regionally and internationally, especially after

1997 when Hong Kong became the freest place in China," Professor Simon Young, Director of the CCPL and project co-ordinator for the Portal, says.

"We felt it was necessary to have some way to capture, organise and disseminate this valuable knowledge of the past, present and future. Most importantly, it had to be translated into Chinese to reach the wider Chinese audience both in Hong Kong and other parts of the Mainland and Taiwan. To have this kind of content available in English and Chinese must be a first."

The Portal, which received KE funding, is targeted at

professionals in the field, such as government officials, non-government organisations, practitioners and students, as well as those new to the subject. Professor Young stressed it was meant to be more than a reporting centre on human rights.

"The content is fairly advanced and tends to be more socio-legal analysis than merely factual. It is not so much aimed at raising awareness about current rights violations but at providing analysis and research on human rights issues. As China moves closer towards a rule of law society, this kind of information becomes extremely useful and valuable," Professor Young says.



BASIC SCHOOLING

One thing knowledge exchange can do is to highlight issues that may have been neglected by others. That is the case in a study that looks at the feasibility of building a kindergarten for autistic children in Hong Kong.

Currently there is no such dedicated facility in the city, so a team of experts and students from the Faculty of Architecture and Faculty of Business and Economics joined forces to consider how they could fill that need.

The team identified an abandoned building in Discovery Bay that was architecturally sound and could be renovated to meet the needs of autistic children. They produced a business plan as well as an architectural plan that included a play area, wheelchair access, ramps, special bathrooms,

a partition for two classrooms and other features.

They also proposed a garden that could be developed by the children.

"We want it to be horticultural therapy so the students can learn from playing with soil and doing the landscaping – to make it a therapeutic and learning experience," says Assistant Professor Tris Kee, Director of Architecture's Community Project Workshop and project co-ordinator for the kindergarten study.

The study, funded by the KE Impact Projects Fund, was also a learning experience for HKU students who were able to put some of their classroom knowledge into practice and sit in on meetings with government officials, where they witnessed the

complexity of dealing with bureaucracy.

"The process was rather complicated because we had to work with various government departments and there were multiple procedures," Ms Kee says. Nonetheless, they received practical support from the Education Bureau which assigned a person to provide advice and information that was useful to their proposal.

The final study report was submitted to the government in June. "Now we'll just wait to see if the project is supported. If we can make good use of that vacant site, the government doesn't lose anything," she concludes.

And the community, and children, will gain a new resource.





EMPOWERING THE THIRD SECTOR

The 'Third Sector' comprises non-profit and non-government organisations and it plays an important role in filling unmet needs and advocating societal improvements. A new project based at HKU seeks to empower the sector and help it to build up its capacity.

ExCEL3 – which stands for Excellence and Capacity Building for Entrepreneurship and Leadership for the Third Sector – is a cross-disciplinary initiative to equip the sector to cope with a changing environment and rising community expectations and also develop HKU's research and teaching capacity in studying civil society.

The project will organise training, sharing and research activities that focus on nurturing innovation and entrepreneurship, and

strengthening leadership, management, governance and organisation capacity.

Specific programmes will elaborate on such issues as human rights management in non-profit organisations, financial strategy and leadership in high-performing non-profits, legislation and policy reform and advocacy, and understanding and using the news.

Collaborative networks will bring together philanthropists, foundations, social entrepreneurs and institutional investors, and non-profit groups and the academic community, both in Hong Kong and overseas. The non-profits will represent a wide gamut of interests such as the environment, women, artists, religious faith, human services, advocacy, patients and self-help.

The project initially will run for five years and it received \$32 million from the Hong Kong Jockey Club in May 2012.

The Dean of Social Sciences, Professor John Burns, said they had already established networks with charities, investors, social enterprises, NGOs and social venture capitalists.

"This project crosses disciplines – we're working with Law, Business, Arts and Medicine – and we're partnering with the Rockefeller Foundation as well as the Jockey Club. It's a huge multi-year project and within the sector it has sparked recognition that HKU is a player," he says.

At the opening ceremony for ExCEL3, Vice-Chancellor Lap-Chee Tsui and HKJC Chairman Brian Stevenson display a scroll aptly summing up Knowledge Exchange: 'Wisdom of the knowledgeable will benefit the community'



睿智

ExCEL3

Excellence & Capacity building for Entrepreneurship & Leadership for the Third Sector

EMPOWERING THE THIRD SECTOR FOR A BETTER SOCIETY



SUSTAINABLE AMBITIONS



The founders of the student group Sustainable Generation started with big ambitions, just like many student groups before them. But they had something else: a well-thought out strategy for making their ideals a reality.

The group's mission is to implement renewable energy projects in rural areas. In 2012 they completed their first project, a mini-hydropower plant in a remote Thai village that provides enough power for 30 light bulbs – a big step forward for a village that is not hooked up to the electricity grid. The students also provided training and instructions so the villagers can maintain the plant themselves.

In preparation, they approached the Centre of Development and Resources for advice on communities that could use their help and put together a detailed

plan on costings for the generators, water pipes and other components and expenses such as flights. They also worked with the Faculty of Engineering to apply for KE funding.

Sony Han, a third-year Engineering student and one of the driving forces behind Sustainable Generation, said they were motivated by a desire to make the most of their university education.

Responsibility to Help

"A lot of student societies are about social activities but we thought that as university students, we have a responsibility to apply our knowledge in areas that can use our help," he says.

"The [KE] funding was crucial because it made the project possible in a material sense and it also showed we were legitimate

and not messing around when we applied for sponsorship outside the University." The group also has support from the Hong Kong Electric Clean Energy Fund.

Sustainable Generation includes students from Engineering, Architecture and Journalism and Sony said they were using expertise from all of them. For instance, they are currently looking at how to use social media to promote their group and investigating social enterprise opportunities as a way to fund future projects that help to sustain others.

"We can't go to every village in the world so we plan to install, demonstrate and teach others how to do it for themselves," Sony adds.



The HKU-Shenzhen Hospital represents unprecedented achievement in Knowledge Exchange

THE HKU-SHENZHEN HOSPITAL

An unprecedented achievement in knowledge exchange was realised when the HKU-Shenzhen Hospital had a soft opening in July 2012, a facility that will be developed into a world-class medical centre and provide many mutual benefits to HKU and Shenzhen.

The hospital is managed by HKU, supported by the Faculty of Medicine, to HKU standards and enables us to introduce a new

hospital management system and patient care culture to the Mainland, for example through the appointment system and fixed-price package.

Broader Impact

The partnership with Shenzhen is envisaged to have a broader impact beyond the physical confines of hospital walls. This potentially can serve to change and advance clinical services in

China and contribute to its healthcare reform.

"This collaboration will infuse bold, creative, transforming insights into China and will function as a training centre of clinical skills and professional ethics," says Professor Lee Sum-ping, Dexter H.C. Man Professor in Medical Science and Dean of Medicine.

"The rich clinical materials will



Trial runs at the hospital prior to opening



also provide a strong impetus to our own medical education and research. Most importantly, this project allows our Medical Faculty to realise our mission and vision, transcending the physical constraints of our institutional boundaries."

The hospital opened with the service of 62 doctors. During Phase 1 of its operations, it is initially offering primary care, speciality out-patient services and a limited

scale of in-patient services. When fully up and running, the hospital is expected to provide 2,000 beds and 10,000 daily out-patient consultations and have over 900 doctors on staff.

Areas of Excellence

In addition to a full panel of speciality services, the HKU Affiliate Teaching Hospital will be complemented by five of HKU's areas of excellence (organ

transplantation, haematological oncology, cardiology, orthopaedics and traumatology, and reproductive medicine and prenatal diagnosis).

The aims are ambitious and while there may be challenges and hurdles along the way, particularly in the merging of two medical cultures, Professor Lee is confident they can be overcome. "A thousand-mile journey starts with the first step," he says.

SPOTLIGHT ON THE ARTS



University Knowledge Exchange funding for a student arts project is having a multiplier effect: not only did the students stage a drama production as planned, they also were inspired to organise a cultural festival to promote the arts in general on campus.

The drama, *Take Love* by Lighthouse Productions, was performed in four sold-out shows at the Fringe Club in March 2012.

Charles Fong, a third-year Science student, helped to found Lighthouse Productions and said the KE funding, combined with the show's success, had enabled them to be more ambitious in their goals for the future and plan

a week-long student arts festival in the 2012–13 academic year.

"If we hadn't got the funding for *Take Love*, we would have had to pay for everything ourselves and get the money back from ticket sales," he says. "But because we had this initial funding, we were able to use the ticket money for the arts festival and our next production. It's made it easier to become more sustainable and not just be a one-off thing."

Fostering Innovation

Their success has also been an encouragement to the Cultural Youth Leadership Academy, a spinoff of the Faculty of Arts' Cultural Leadership Academy that

aims to groom student leaders and foster an environment where they can innovate, network and draw on expertise in the faculty.

Dr Robert Peckham, who mentored the *Take Love* project and established the Academy with Professor Daniel Chua, was impressed by the quality of the production and the resourcefulness of the students in putting on the show.

"It was a wonderful performance and we felt that there was an imperative to encourage this kind of student leadership in whatever ways we could," he says.



香港大學

THE UNIVERSITY OF HONG KONG

BULLETIN

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A BALANCE OF TRADITIONS

Bridging Chinese and Western medicine



Chinese Gamblers
High-Stakes disease



Grand Designs
Creating the Centennial Campus





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Some 600 secondary school students from 56 local schools had a joyful night at the Art Museum

Oh, What a Night!

The 'Night at the Museum' series is proving a hit with the secondary schools and museums involved and with HKU's growing team of volunteers, and it's a prime example of our commitment to knowledge exchange.

After the success of 'A Night at the Science Museum' in 2011 as part of the HKU Centenary Celebrations, the Leisure and Cultural Services Department invited HKU to stage another event at the Hong Kong Museum of Art. The result was 'A Night at the Museum of Art with Andy Warhol' (February 22 and March 8) which tied into the Museum's *Andy Warhol: 15 Minutes Eternal* exhibition.

The Science Museum night was led by Professor Paul Cheung and organised by the Faculties of Science and Engineering. For Andy Warhol, the event was produced by the Development and Alumni Affairs Office (DAAO) with various departments including the Journalism and Media Studies Centre (JMSC), Computer Science, University Museum and Art Gallery, General Education Unit, Electrical and Electronic Engineering, Sociology, History and Fine Arts, plus 100 student volunteers representing nearly every Faculty.

Unique journey

This time some 600 secondary students from 56 local and international schools participated. Says DAAO Director Bernadette Tsui: "We wanted to create a unique journey for the students as they discover a new meaning to creativity and pop art, media and technology, culture and society. This will be their 'Night Eternal' – something they will still remember fondly when they are 50 years old."

HKU student volunteers were assigned to one of four roles: Tour Guides, who partnered with docents at the Museum; Buddies, who took care of the teens; Drivers, who ushered them from one floor to the next; and Workshop Butlers, who facilitated during workshops.

In addition to HKU representatives there were facilitators – artists, two music bands, a dance lecturer, photographers, a fashion designer, a

cinematographer and a window display expert – all running workshops to give the teenagers practical experience of how Warhol lived and worked.

"We also included a Time Capsule session," says Ms Tsui, "where students were asked to bring an item of significance to them to the event. Professor Lui Tai-lok from Sociology and Professor John Carroll from History spent time during the night studying the time capsules students made, and at dawn shared with the students their interpretations of the memorabilia." Among the many items were a diary, a class photo, a Starbucks receipt, a photo of an egg-tart, a 'Proud to be Filipino' hat...

Students from the JMSC also got their turn, reporting live on the event through the night. With the guidance of the Centre's Masato Kajimoto and Kevin Lau, they built communication platforms on Facebook, Twitter and Instagram, produced video clips and broadcast multi-media reports while the event was unfolding, as well as editing a video to show participants the very next morning.

Says Mr Kajimoto: "It was an opportunity for them to experience the excitement and the pressure of live broadcasting and editing to a very tight deadline."

Future museum nights will have even more to offer HKU students. "At the last two camps the programmes were curated by HKU faculty," says Ms Tsui. "Next time the HKU students will be invited to curate the event – the opportunities for cross-collaboration are endless." ■



Students had hands-on experience in producing silkscreen prints of popular icon



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SHOW MENU

Faculties & Departments

SORTED BY: FACULTIES | ALPHABETICAL ORDER

Architecture, Faculty of



Arts, Faculty of



> Buddhist Studies, Centre of



> Humanities, School of

- Cultural Management Team



Business and Economics, Faculty of



Dentistry, Faculty of



Law, Faculty of

> Centre for Comparative and Public Law



> Centre for Comparative and Public Law (CCPL)



Science, Faculty of



> Earth Sciences, Department of

- Stephen Hui Geological Museum



> Statistics and Actuarial Science, Department of



Social Sciences, Faculty of

> Ageing, Sau Po Centre on



Other Units / Centres

> Development and Alumni Affairs Office

- Centenary Celebrations, HKU 100



> Development and Resources for Students, Centre of

- Counselling and Person Enrichment (CoPE)



- First Year Experience at HKU



- Student Development



- Students' Achievements



> General Education Unit



> Humanities and Medicine, Centre for the



> Human Performance, Institute of



> Information Technology Services

- HKU App

➤ Journalism and Media Studies Centre

➤ Knowledge Exchange Office

- Student Knowledge Exchange (KE) Project Grant Scheme

- Three Minute Thesis (3MT®) Competition of HKU

➤ Sustainability Office

➤ University Libraries

Service and Administrative Departments

➤ Academic Liaison Section

- Connect with HKU

- HKU Global Lounge

- HKU International

- HKU Summer Programme

- hKUDOS

➤ Communications and Public Affairs Office

- Media

- U-Vision





PARTNERSHIPS AND KNOWLEDGE LINKS

Partnerships

Useful Links

HKU Knowledge on Video



Partnerships

The University of Hong Kong makes a continuous effort to make its knowledge and expertise accessible to society, and welcomes opportunities to establish partnerships with organizations outside the academia (such as government departments, public organizations, industries, businesses, non-governmental organizations and professional societies).

This webpage links external organizations to Faculties and offices concerned as well as various online resources of the University to explore opportunities of working with our students through internships or student projects and to search for our researchers for potential collaboration.

Expressions of interest and enquiries will be re-directed to the relevant Faculties, departments or units of the University, which may contact you direct if it is considered that common interest may be explored.

In establishing partnerships, attention should be given to the relevant policies and guidelines of the University, including:

- [Intellectual Property Rights Policy](#)
- [Use of the University's Name and Visual Identity](#)

Partnership Opportunities Involving Students

Partnership Opportunities Involving Undergraduate Students

- [Experiential Learning Projects](#)
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Partnership Opportunities Involving Taught Postgraduate Students

- [Capstone Projects](#)

Other Partnership Opportunities Involving Students

- [Service Learning](#)
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Partnership Opportunities with Our Experts

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- [Knowledge Exchange Impact Projects](#)
- [Patents/Licenses](#)
- [Strategic Partnerships](#)
- [Meet Us at Events](#)

KNOWLEDGE EXCHANGE FUNDING EXERCISE 2012/13: AWARD SUMMARY FOR IMPACT PROJECTS

Faculty / Unit	Project Co-ordinator	Post Title / Department	Project Title	Summary Description
Architecture	Mr Anderson LEE, Ms Tris KEE	Assistant Professors / Department of Architecture	Publication for Public Sharing about the Hong Kong \ Shenzhen Biennale of Urbanism and Architecture 2011- 2012	It aims to continue with the momentum of the third Hong Kong/Shenzhen Biennale of Urbanism and Architecture 2011-12 exhibition in a book sharing format.
Architecture	Ms Tris KEE	Director of Community Project Workshop / Department of Architecture	Community Architecture: To Promote Horticulture Therapy in an Urban Landscape	It aims to exchange knowledge from the Department of Architecture and the Division of Landscape Architecture in the production of a pilot community farm project in Fanling, New Territories; and to offer the public a community venue to promote horticulture therapy and eco-living with the following objectives: 1) to offer both architectural and landscape facilities to practice horticulture therapy to charity groups and school groups; 2) to educate the public an awareness of green-living; 3) to create an interpretive exhibition focused on community farming, horticulture therapy and eco-living.
Architecture	Ms Tris KEE	Director of Community Project Workshop / Department of Architecture	Digital Audio-Video Archive for Architecture	It aims to produce a series of digital audio-videos for secondary school teachers and students to understand fundamental architectural concepts based on the existing Art and Science curriculum in secondary schools, which will also become a more accessible and easy-to-understand resource kit for a wide range of audience, including secondary school teachers and students, professional bodies and Education Bureau.
Architecture	Ms Tris KEE	Director of Community Project Workshop / Department of Architecture	Publishing the Collection of Faculty KE Activities	It aims to produce a publication (which will be free for access and distributed in public domain) to document the KE activities in the Faculty of Architecture since 2009 to assist both local and overseas institutions in understanding KE activities related to Architecture and in exchanging knowledge with overseas organizations that wish to set up their own KE units.
Architecture	Ms Vincci MAK	Assistant Professor / Division of Landscape Architecture	HAD (Heritage x Arts x Design) Walk Project Tsuen Wan & Kwai Tsing – Productive Landscape in Tsuen Wan/Kwai Tsing and Its Cultural Significance	It aims to raise public awareness of the productive character of landscapes, by illustrating the importance of surrounding landscapes and the environment's geographical contribution in shaping local village culture (Hakka culture) and how human civilization creates the cultural landscape in the natural environment, through a public exhibition, with attached publicity programs such as guided tours, lectures/forums, and community workshops during the exhibition period.

KNOWLEDGE EXCHANGE FUNDING EXERCISE 2012/13: AWARD SUMMARY FOR IMPACT PROJECTS

Faculty / Unit	Project Co-ordinator	Post Title / Department	Project Title	Summary Description
Architecture	Mr Matthew PRYOR, Ms Melissa CATE CHRIST	Assistant Professors / Division of Landscape Architecture	Edible Green Roof Prototype: A Project for Converting Roof Spaces of Existing Buildings to Productive Use	HKU staff and students will build a low-cost prototype 'edible green roof' on top of the Yau Tong Industrial City building in Kowloon, which will be used as a model to activate roofs on other buildings as productive landscapes to the benefit of charities served by Feeding Hong Kong (a non-profit food bank charity). The project also aims to engage building occupiers in sustainable green roofs practices; to facilitate community social interaction and recreation; and to educate the general public through tours, workshops and a publication/manual.
Architecture	Ms Dorothy S W TANG	Assistant Professor / Division of Landscape Architecture	Hong Kong Platforms: Educating Secondary School Students about the Sustainability of the City	It aims to complement the "Hong Kong Platforms", a platform for discussion regarding social, economic, and environmental sustainability along the MTR Tung Chung Line, by developing expanded secondary school course materials related to the sustainability of the built environment.
Architecture	Dr Sun Wah POON	Associate Professor / Department of Real Estate & Construction	The Quarrying Industry and the Infrastructure Development of Hong Kong: Influence and Interaction	It aims to provide a platform for a deeper understanding, among the academic researchers, stakeholders of the industry and the general public, of the interweaving history of Hong Kong's quarrying industry and the infrastructure development with the provision of multiples channels of knowledge exchange such as leaflets, seminars, exhibitions and guided tours.
Arts	Professor Douglas KERR	Professor / School of English	Second Century Lecture Series	It aims to initiate a series of free, public lectures by internationally renowned experts in the Arts and Humanities in association with the Faculty of Social Science and the Hong Kong International Literacy Festival.
Arts	Dr Lisa LIM	Assistant Professor / School of English	LinguisticMinorities.HK	It aims to create a one-stop go-to resource on the linguistic situations of ethnic minorities in Hong Kong by developing a website that collates existing and continuing resources and research, including, crucially, ongoing fieldwork research by HKU faculty and students.
Arts	Dr Page RICHARDS	Associate Professor / School of English	The Power of Intimacy: The Writers' Guidebook to Hong Kong Neighborhoods	It aims to develop the first local and collective writer's guide to Hong Kong and a new series in the Arts Building based on the book, which will build upon the strengths of a new generation of writers at HKU and impact local members of the community by bringing their neighborhoods to life.

KNOWLEDGE EXCHANGE FUNDING EXERCISE 2012/13: AWARD SUMMARY FOR IMPACT PROJECTS

Faculty / Unit	Project Co-ordinator	Post Title / Department	Project Title	Summary Description
Arts	Professor Daniel K L CHUA	Head and Professor / School of Humanities	Cultural Leadership Youth Programme	Based on the success of the Advanced Cultural Leadership Programme, the Cultural Leadership Youth Academy aims to nurture young cultural leaders to maximize their creative potential for initiating their own student-led cultural projects.
Arts	Dr Mirana M SZETO	Assistant Professor / School of Humanities (Comparative Literature)	Sharing Stories - Raising the Sense of Community in Rural Pat Heung, New Territories	It aims to raise the sense of community for the diverse communities in Pat Heung district by sharing stories on history, culture, development, agriculture and ecology, and to rebuild a new Pat Heung community through publishing a monthly community newspaper (freely distributed and uploaded to a website).
Arts	Dr Esther YAU	Associate Professor / School of Humanities (Comparative Literature)	Migration Memory and Creative Digital Narratives	It aims to create a creative web resource to collect and exhibit Hong Kong's diverse migration memory. Knowledge of cultural memory and visual narratives will be conveyed through lectures, interactive workshops and the web to prepare participants who are community service organizers, students, and families of the immigration population to make migration narratives.
Arts	Dr Roslyn L HAMMERS	Assistant Professor / School of Humanities (Fine Arts)	University Museum and Art Gallery Website	It aims to create a new museum website to showcase HKU's magnificent collection of Chinese art and antiquities, and to provide an original and exciting learning platform through which the public can access and interact with original research taking place across disciplines within the University.
Arts	Dr Robert PECKHAM	Co-Director / Centre for the Humanities and Medicine and Assistant Professor / School of Humanities (History)	Contagions: Cultural Perspectives on Emerging Disease	It aims to harness and translate innovative research and teaching within HKU on the cultural and social contexts of disease in order to disseminate knowledge and inform the public about the issues at stake in the mediatizing of infection through a series of interlinked public lectures, film screenings and open forums (accessible to a broad audience via a dedicated online platform and take-home information sheets).

KNOWLEDGE EXCHANGE FUNDING EXERCISE 2012/13: AWARD SUMMARY FOR IMPACT PROJECTS

Faculty / Unit	Project Co-ordinator	Post Title / Department	Project Title	Summary Description
Arts	Dr Victor E L TEO	Assistant Professor / School of Modern Languages and Cultures (Department of Japanese Studies)	Public Forum on Global Governance, Underground Economy and Its Impact on Food and Human Security in Greater China and East Asia	It aims to ameliorate and increase the Hong Kong public's understanding and appreciation of Underground Economy, Global Governance and Food/Health Security Issues in East Asia through a series of public seminars.
Dentistry	Dr Ricky WONG	Associate Professor / Faculty of Dentistry (Orthodontics)	Oral Health Education Kit for Orthodontic Patients	It aims to present 5,000 free orthodontic patient education kits to patients. Fifty sets of such kits will be distributed to every orthodontist (around 100 in total) in Hong Kong for them to use for patient education. The video will also be uploaded to YouTube for public access.
Education	Professor Mark BRAY	UNESCO Chair Professor in Comparative Education / Division of Policy, Administration & Social Sciences Education	Policy Forum: Government Policies for Shadow Education – Common Concerns in Diverse Contexts	It aims to organize a policy forum for policy makers to learn from each other and from researchers how to steer the shadow education industry to promote positive dimensions and ameliorate the negative ones.
Education	Dr Tammy KWAN	Assistant Dean (School-University Partnerships) / Partnership Office	A Series of Professional Events to Enhance KE among Different Stakeholders in the Broader Educational Communities – A Platform for Mutual Learning Opportunity to Actualize the Spirit of School-University Partnerships	It aims to create a KE platform (including talks, visits, seminars and workshops) to enhance mutual learning opportunity on major educational issues between different stakeholders of the educational community to actualize and to sustain the spirit of School-University Partnerships.
Education	Dr Dan WANG	Assistant Professor / Division of Policy, Administration & Social Sciences Education	Capacity Building for Migrant Workers: The Longhua Community School Project	It aims to build capacities in migrant workers in Longhua Industrial Park at Shenzhen by offering free weekend and/or night courses in the areas of social, educational and technical knowledge including workers' and women's rights, new media, ICT, family and education, speech and writing, and health and stress relief.

KNOWLEDGE EXCHANGE FUNDING EXERCISE 2012/13: AWARD SUMMARY FOR IMPACT PROJECTS

Faculty / Unit	Project Co-ordinator	Post Title / Department	Project Title	Summary Description
Education	Dr Dennis Chun Lok FUNG	Assistant Professor / Division of Science, Mathematics and Computing	Supporting Teaching and Learning in Liberal Studies through Collaboration between Exemplary Teachers, Non-Government Organizations and HKU Student-Teachers	It aims to bridge the gap between theory and practice and to enrich the database of teaching materials in Liberal Studies for both the academic and non-academic sectors (e.g. the Hong Kong Liberal Studies Organization, UNESCO HK and Oxfam HK) through collaboration between student-teachers at the Faculty of Education, education development teams from NGOs and the exemplary teachers who won the 'Teaching Plan Competition 2012' award.
Engineering	Professor Francis C M LAU	Professor / Department of Computer Science	Lightning Analyzer for Everyone	It aims to educate primary and secondary school students and teachers, and the public in general, the characteristics of lightning, analysis of sensor data by the computer, and techniques for designing a lightning direction and/or strength analyser at a minimal cost.
Engineering	Dr Vincent LAU	Course Instructor / Department of Computer Science	Accessibility Technology Solutions Study for Secondary Schools	It aims to inspire students to think creative solutions to help the needy (such as visually/hearing/physical impaired) through technologies by publishing an e-book and organizing seminars, workshops and competition for students.
Medicine	Dr Hak Kan LAI	Research Assistant Professor / Department of Community Medicine	Forecasting Health Impacts in the Hedley Environmental Index	It aims to create a health evidence-based online (hedleyindex.sph.hku.hk) risk communication tool for the public and the government to promote better understanding of environmental impacts on population health.
Medicine	Professor Ronald LI	Professor / Department of Medicine	Stem Cell Knowledge Exchange Program: From the Scientific Cutting Edge to Experience	It aims to raise the public awareness about stem cells and regenerative medicine and how stem cell research can benefit the future mankind by providing secondary school and university students opportunities to experience and participate in various activities including luncheons, poster competitions, visits and booth organization at HK Science Museum etc.

KNOWLEDGE EXCHANGE FUNDING EXERCISE 2012/13: AWARD SUMMARY FOR IMPACT PROJECTS

Faculty / Unit	Project Co-ordinator	Post Title / Department	Project Title	Summary Description
Medicine	Dr William Ho Cheung LI	Assistant Professor / School of Nursing	A Health Promotion Programme to Enhance the Psychological Well-being of Hong Kong Children in Kwai Chung Estate	It aims to enhance the psychological well-being of children in Kwai Chung Estate by collaborating with the Youth & Children Integrated Centre in Kwai Chung to develop and implement a health promotion programme.
Medicine	Professor Agnes TIWARI	Head and Professor / School of Nursing	Supporting New Immigrant Women through Knowledge Exchange	It aims to ease the acculturation process of newly arrived immigrant women by linking them to settled immigrant women volunteers for unofficial support (through direct contact, telephone, SMS, emails and other means of communications) to enable sharing of experiences of immigrant process, provision of information about community resources and a supportive network.
Medicine	Professor Ian Chi Kei WONG	Head and Professor / Department of Pharmacology and Pharmacy	A Date with Drugs	It aims to enhance public's knowledge on medication safety through a series of public lectures, leaflets and video clips, with an aim to reach those with chronic disease and special patient groups including the elderly, patients or carers of those with mental illness and/or underprivileged.
Science	Dr Benny Chun Hei NG	Teaching Consultant	Science Art Crossover – Visualizing Science via Creative Lens & Interactive Art	It aims to foster scientific literacy to the general public especially secondary school students by visualizing science in a simple, artistic and interactive manner through a discussion and sharing session, an art jamming session and a public Science-Art exhibition.
Science	Dr Janet K Y CHAN	Teaching Consultant / School of Biological Sciences	Dissecting Hong Kong's Pressing Environmental Management Issues and Exploring Their Solutions	It aims to raise public awareness on contemporary environmental issues through the development of an online book (freely available to the public) that focuses on pressing environmental issues in Hong Kong with the hope that educators will use it when teaching environmental issues as part of the liberal studies curriculum.

KNOWLEDGE EXCHANGE FUNDING EXERCISE 2012/13: AWARD SUMMARY FOR IMPACT PROJECTS

Faculty / Unit	Project Co-ordinator	Post Title / Department	Project Title	Summary Description
Science	Dr Chun-shing PUN	Assistant Professor / Department of Physics	Community Light Pollution Reach-out Project	It aims to promote the awareness of light pollution to the public, alert the public the light pollution studies conducted in HKU, and engage secondary school students to study and understand light pollution scientifically by running workshops in schools and organizing community reach-out events during the annual lights-out event "Earth Hour" and in other places such as shopping malls and public parks.
Social Sciences	Professor Cecilia CHENG	Professor / Department of Psychology	Promoting Social Inclusion among Individuals with Physical Disability through Virtual Mobility: Social Networking Platform for One-stop Online Support	It aims to promote social inclusion by developing a one-stop social network platform, which provides Hong Kong PHAB Association (HKPA) staff, members, volunteers, and the general public with online social support free of geographical and time constraint.
Social Sciences	Dr Celia Hoi Yan CHAN	Assistant Professor / Department of Social Work and Social Administration	Empty Cradle, Broken Heart – Advancing Perinatal Bereavement Care for Healthcare Professionals in Supporting People Who Have Experienced Pregnancy Loss	It aims to develop perinatal bereavement care and support services, and to train healthcare professionals in providing quality perinatal bereavement care to the couples who have experienced pregnancy loss.
Social Sciences	Professor Paul S F YIP	Centre Director / The Hong Kong Jockey Club Centre for Suicide Research and Prevention	Train the Trainers Workshop Series for Local Secondary Schools	It aims to encourage sustainability of mental health literacy transfer to secondary schools, and to develop a tailor-made mental health enhancement curriculum with our professional after-workshop consultations.
Institute of Human Performance	Dr Duncan MACFARLANE	Associate Professor	Development of a Portable Digital Body-image Dissatisfaction Scale for Health Professionals	It aims to develop a portable iPad application with up to 100 real "somatotype" images for each gender that vary precisely in degrees of fatness, leanness, and muscularity, which a wide range of health professionals can rapidly collect and instantly analyse, providing immediate and high quality feedback to their clients.

KNOWLEDGE EXCHANGE FUNDING EXERCISE 2012/13: AWARD SUMMARY FOR IMPACT PROJECTS

Faculty / Unit	Project Co-ordinator	Post Title / Department	Project Title	Summary Description
University Libraries	Mr David PALMER	Associate University Librarian	Increase Visibility, Discovery & Re-use of HKU Data	It aims to increase the visibility, discoverability, and the re-use of data in The HKU Scholars Hub, which will lead to increase in several KE indicators, such as contract and & collaborative researches, for HKU as a whole, and individual HKU scholars.
Journalism and Media Studies Centre	Professor Ying CHAN	Director and Professor	Open Land Project – Hong Kong	It aims to build a data center and a set of interactive websites to empower citizens in Hong Kong to participate in land use and development matters. The project will serve as a model for China and SE Asian countries, promoting government accountability and public participation.
HKU Press	Mr Michael DUCKWORTH	Publisher	HKU Press Digital Publishing/Open Access – KE 4	It aims to create ePUB files for high value/critical back list content; digitize some textbook and reference backlist, rekeying as needed for flexible use in new formats; and to make a reprint collection of 130 Classics of HKU Libraries via print-on-demand, expand the number of titles available to 200, and also use the files selectively for Open Access via HKU Scholars Hub/HKU Alumni, as well as HK EdCity and OAPEN.
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STUDENT KNOWLEDGE EXCHANGE (KE) PROJECT GRANT SCHEME 2012/13: AWARD SUMMARY

Student Project Team	Faculty Mentor (Post/Department)	Partner Organization	Project Title	Main Objectives
Faculty of Arts				
Miss Chor See CHAN Miss Ye Tung NG Miss Cheuk Ling TSANG Mr Tin Chak KAU Mr Pok Shaan WONG	Dr Mirana May SZETO (Assistant Professor; Undergraduate Coordinator / School of Humanities (Comparative Literature))	St. James' Settlement	Social Recording - Preserving the Tangible and Intangible Culture of Viva Blue House (VBH)	<ul style="list-style-type: none"> • To investigate Hong Kong grassroots history and culture through recoding the ways of life in the Blue House cluster built in the 1920s to 1950s • To provoke public reflection on social issues, such as preservation of cultural heritage and urban renewal • To promote the importance of social networks, the humanistic value behind the social innovations at VBH
Miss Danielle Leeann CHIN Mr Charles FONG Miss Krithika CHANDRA MOULI	Dr Robert PECKHAM (Assistant Professor / School of Humanities (History); Co-Director / Centre for the Humanities and Medicine)	Doppio Zero	Step Out: The Continuation of The HKU100 Student Arts Festival <i>A Dialogue Between Creative Students & Arts Professionals</i>	<ul style="list-style-type: none"> • To bring HKU students' art production into the community • To promote HKU student talent creativity in the arts • To foster public debate on the arts, with HKU students as catalysts • To enhance HKU student leadership in the arts
Miss Tsz Wing HO Miss Rachel Cheuk Lun CHAN Miss Sharon Cheuk Yan CHAN Miss Jun Ah KIM	Dr Lisa LIM (Assistant Professor / School of English)	Social Ventures Hong Kong (SVhk), in collaboration with Kerry Group Kuok Foundation	Towards the English Language Enhancement of Children from Underprivileged Families in Hong Kong	To contribute to the English language enhancement of children from underprivileged families in Hong Kong, by being English language tutors and mentors in the Kerry Group Kuok Foundation's Little Trekkers Learning Club programme for children (P1-3, 4-5) from underprivileged families in Yat Tung Estate, Tung Chung, in 3 schools there, in (i) the Regular programme: assisting with after-school classes 1 or 2 times a week in English teaching and curriculum development; and (ii) the Summer programme: helping develop the curriculum and conduct activities for English Learning Week to enhance English learning, in creative and fun ways.
Miss Ge Yau LEUNG Ms Grace Yee Shuen CHENG Mr Miles DUGAN Miss Shi Jia YU Miss Wenqi ZHU	Dr Yeewan KOON (Assistant Professor / School of Humanities (Fine Arts))	Art Promotion Office, Leisure and Cultural Services Department	Curatorial Project: Fantasies and Crises: Works of Austrian Artists, Gustav Klimt (1862-1918) and Egon Schiele (1890-1918)	<ul style="list-style-type: none"> • Public education on artistic and historical knowledge • Educating the public, in particular high school students, about critical appreciation of artworks and the display of artworks

STUDENT KNOWLEDGE EXCHANGE PROJECT GRANT SCHEME 2012/13: AWARD SUMMARY

Student Project Team	Faculty Mentor (Post/Department)	Partner Organization	Project Title	Main Objectives
Faculty of Arts				
Mr Fei XIAO Miss Weini PENG Mr Jiyuan QIAN Mr Peng SHANG Ms Mengjing MAO Ms Yunong ZHENG	Dr Robert PECKHAM (Assistant Professor / School of Humanities (History); Co-Director / Centre for the Humanities and Medicine)	Charitable Service Association of Inner Mongolia Normal University; Teaching Corps in Northwest Yunnan; Volunteer Club of Hainan	Pilot Project for Volunteer Leaders	<ul style="list-style-type: none"> • To inculcate a creative and interactive learning environment in schools in remote areas of Mainland China • To encourage teacher and student self-reflection • To bring new ideas and perspectives to teaching
Miss Alice Hoi Ying YAU Mr Ronald Lung Yat CHUI Mr Joey Chin Ching FUNG	Dr Olga ZAYTS (Assistant Professor / School of English)	Clinical Genetic Service, Department of Health, Hong Kong	Development of Information Resources for Clients with Genetic Conditions and Healthcare Genetic Professionals	To develop on-line (a website) and printed materials (two information leaflets) for two groups of beneficiaries: 1) clients with genetic disorders, and their families and other support groups; 2) healthcare genetic professionals who work with clients with genetic conditions (e.g. genetic nurses, genetic counsellors, clinical geneticists) based on the on-going research that involves an active collaboration between the School of English (HKU), Clinical Genetic Services of Hong Kong (HA), and a number of public hospitals (QMH, Tsan Yuk and Princess Margaret hospitals)
Faculty of Business and Economics				
Miss Ji Hyun HAN Miss Huijing JIANG Miss Margaret Shengnan DUAN Miss Junye ZHANG Mr Han BAO Mr Yang WU Miss Chui Sze HO Miss Hoi Man CHENG Miss Chun Ming CHIK Miss Rachel Wing Sum HO	Dr Winnie S.C. LEUNG (Teaching Consultant / School of Business)	Junior Achievement Hong Kong	Business Ethics – Pathway to Future Leader	<ul style="list-style-type: none"> • To nurture future business leaders with a high sense of social responsibility and integrity through understanding business ethics. • To provide secondary school students a platform to interact and exchange ideas with business leaders and the project team on business ethics issues.
Miss Wing In SO Miss Joyce Ho Yan LEUNG Miss Mei Ki KWONG Mr Chit Hang CHAN Miss Sin Ying SO	Mr David BISHOP (BBA(LAW) & LLB Programme Coordinator; Senior Teaching Consultant / School of Business)	Soap Cycling and participating hotels	Soap Cycling Project	To turn hotel soap that is to be thrown away into new, clean soap using refining and plodding machines. The recycled soap will be distributed to various charitable organizations which will then distribute the soap to developing countries where people do not have soaps for basic sanitation.

STUDENT KNOWLEDGE EXCHANGE PROJECT GRANT SCHEME 2012/13: AWARD SUMMARY

Student Project Team	Faculty Mentor (Post/Department)	Partner Organization	Project Title	Main Objectives
Faculty of Dentistry				
Ms Tiffany Chi Lok CHAN Mr Eric Ho Yin CHAN Mr Ronald Yik Long CHAN Ms Iris Ngai Yu CHEUNG Mr Steve Lut Ting LAM Ms Jasmine Yee Lok LAM Ms Ruby Sze Tung LI Mr Chun Pang POON Ms Serena Wai Ling TSE Dr Amelia W.T. CHEUNG Dr Edith S.S. HO Dr Mary S.H. LAM	Dr Mike Y.Y. LEUNG (Clinical Assistant Professor / Faculty of Dentistry (Oral and Maxillofacial Surgery)) Professor Gary S.P. CHEUNG (Clinical Professor / Faculty of Dentistry (Endodontics)) Professor Lim Kwong CHEUNG (Chair Professor / Faculty of Dentistry (Oral and Maxillofacial Surgery))	Anglican (Hong Kong) Primary Schools Councils (APSC); Hong Kong Council for Educational Administration (HKCEA)	Management of Jaw, Face and Dental Trauma: Educational Campaign for Primary and Secondary School Teachers	<ul style="list-style-type: none"> • Transfer knowledge and skills gained at HKU to improve knowledge of primary and secondary school teachers on first-aid treatment of jaw, face and dental injury in school. • Subsequent knowledge application and exchange within schools, and eventual improvement of treatment outcomes of students suffering from jaw, face and dental injury owing to time-sensitive trauma management provided by their teachers.
Miss Janet Sei Min CHAN Miss Tiffany Chi Lok CHAN Miss Tsz Yan LI Mr Kenneth Chi Kin WONG Mr Kenneth Ka Chun CHOW Mr Kenneth Kai Hay YUNG	Dr Yanqi YANG (Clinical Assistant Professor / Faculty of Dentistry (Paediatric Dentistry and Orthodontics))	Eugene Group	Becoming "babywise" - --Oral Health Knowledge Education Among Parents of Infants	<ul style="list-style-type: none"> • To promote oral health of children aged 0-3 years by helping parents become "babywise" and knowledgeable about oral health, oral hygiene, and good feeding habits
Faculty of Education				
Mr Andrew Yat Chun AU Miss Dorothy Tsz Yan LAU Miss Flora Ka Yan NG Miss Kaylor Yee Man NG	Ms Karen K.M. YU (Clinical Instructor / Division of Speech and Hearing Sciences)	St. Margaret Mary's Catholic Kindergarten	Sound Right - A Screening Project for Local Kindergarten Children and Knowledge Sharing with Teachers	<ul style="list-style-type: none"> • To assess and evaluate speech sound development in local kindergarten children • To disseminate knowledge in speech sound development in preschoolers • To educate the general public the need for screening for possible delay and problem in speech sound development among children
Mr William BREHM Ms Peggy Tsz Yan WONG Ms Winnie Sihong LIU Ms Danielle BIDDLE	Dr Chad LYKINS (Assistant Professor / Division of Policy, Administration and Social Sciences Education)	Cambodian Independent Teachers' Association	Building a Sustainable Partnership between MEd Generalist Studies and Cambodian Teachers	<p>To build a partnership between the MEd Generalist Studies Program and the Cambodian Independent Teachers' Association (CITA)</p> <ul style="list-style-type: none"> • Help CITA create a program that connects evidence-based findings on various issues affecting teachers to its advocacy campaigns • Consult on the development, management, and marketing during the start-up phase of the programme

STUDENT KNOWLEDGE EXCHANGE PROJECT GRANT SCHEME 2012/13: AWARD SUMMARY

Student Project Team	Faculty Mentor (Post/Department)	Partner Organization	Project Title	Main Objectives
Faculty of Medicine				
Mr Kin Wai CHAN Mr Ho Yan KWAN Miss Hiu Tung PUN Mr Wai Kit LAM Miss Ka Yat YUNG Mr Wai Chun LAW Miss Man LAM Miss Wai Sum LAM	Professor Agnes Fung Yee TIWARI (Head and Professor / School of Nursing)	HKSKH Lady MacLehose Centre	Prime Care – Health Oriented Pupils Education Scheme (HOPES)	<ul style="list-style-type: none"> • To be a pioneer in promoting the healthcare concepts to the needy in less developed rural area of mainland China by “training the trainer” method • To assess the health condition of the poor villagers by a bottom up approach
Mr Christopher LEE Miss Miyuki Pui Yee WONG Mr George Tsz Ho SHUM Mr Wai Yiu LAM Mr Ho Fan LAU Ms Emily Yi Ming YUEN Mr Stanley Chi Ho CHUNG Ms Camille Ka Yi YAM	Professor George TSAO (Head and Professor / Department of Anatomy)	Hong Kong Cancer Fund	HEALTH EXHIBITION 2012 – “CANCER CARE”	To provide accessible information and knowledge about the top ten cancers in Hong Kong today and to clear up any existing myths and misconceptions about cancer through staging a public exhibition in shopping malls and LCSD venues. There will be display boards about the cancers, student workers to explain the information, talks and seminars by doctors, as well as a basic health check service.
Mr Kwun Yat WU Miss Chi Yan Jane Wong Mr Michael Matthew Chan Miss Tiffany Chan Miss Gabrielle Gaybel YUEN Mr Daren Ka Chun CHING Mr Daryn Yi Ler CHOW Miss Leanne Han Qin CHIN Miss Jacqueline Hay June HUNG Miss Tsz Shan MA Miss Clare YIP Miss Hui Ying FONG Miss Hui Yi FONG	Dr George TIPOE (Associate Professor / Department of Anatomy)	China Candlelight Educational Fund	Vision of Inspiration and Child Empowerment (VOICE)	<ul style="list-style-type: none"> • To serve communities of underprivileged children by targeting their education and health and inspire them to aim for their dreams • To serve as a platform for HKU students from different faculties to collaborate and apply their knowledge from school to rural local communities. <p>The proposed annual trip is expected to have the following components: (1) Classroom teaching providing health education to 400 primary school children; (2) Exhibition; (3) Interactive talks; (4) Health Check conducted at the schools on the Saturday and Sunday for 1000 villagers; (5) First Aid for Teachers and (6) Home Visits.</p>

STUDENT KNOWLEDGE EXCHANGE PROJECT GRANT SCHEME 2012/13: AWARD SUMMARY

Student Project Team	Faculty Mentor (Post/Department)	Partner Organization	Project Title	Main Objectives
Faculty of Science				
Mr Yik Ki MA Mr Ki Lung KWOK Miss Wing Yan AU Miss Yong Shian PHOON Mr Kwan Ki YIP	Dr Nam Kiu TSING (Associate Dean (Teaching and Learning)) Mr Sze Leung CHEUNG (Outreach Officer and Science Instructor)	Hong Kong Education City Limited	Fun Science Workshop for Primary School Students	To promote science to primary school students to inspire their interest in science by showing some fun science experiments and helping them to become aware of the applications of science in daily life.
Faculty of Social Sciences				
Miss Sally Man Pui CHAN Miss Jodie Yik Man LUI Miss Hi Po LAU	Professor Cecilia CHENG (Professor / Department of Psychology)	Department of Clinical Oncology, Tuen Mun Hospital	Psychology on Cloud (PoC): An Innovative Way to Advance Psychological Health in Cancer Patients	To develop an app: <ul style="list-style-type: none"> • to improve the psychological assessment in patients by ameliorating the assessment process as well as multiplying the number of evaluation; • to increase patients' exposure to psycho-education and stress management techniques; and • to provide timely feedbacks from psychological training.
Miss Joyce Hoi Ling NG Mr Ka Wai CHOI Ms Ying Kiu CHOW	Professor Ian HOLLIDAY (Professor / Department of Politics and Public Administration)	Science and Technology Training Center(STTC)	Healthy Kids Project	To continue the playground program in partnership with the Science and Technology Training Centre (STTC), a Burmese technical school.

Quantitative Indicators

Tables 1 and 2 below correspond to Tables 9.1 and 9.2 of the Initial Statement for the 2012-15 triennium respectively. The 2012/13 column shows the outcomes in the reporting year, which are benchmarked against the outcomes in 2011/12 and the targets by end of this triennium as stated in the Initial Statement.

Table 1

Performance Indicators	2011/12 ^{Notes 1 & 2}	2012/13 ^{Note 2}	Target by end of triennium ^{Note 1}
Number of patents filed in the year (with breakdown by country and type)	71	86	5% increase (already achieved in 2012/13)
Number of patents granted in the year (with breakdown by country and type)	24	33	5% increase (already achieved in 2012/13)
Number of licenses granted (with breakdown by type) ^{Note 3}	68	63	5% increase
Income (on cash basis) generated from intellectual property rights	\$8,911,000	\$7,324,000	5% increase in net income (already achieved in 2012/13) ^{Note 4}
Expenditure involved in generating income from intellectual property rights	\$2,575,000	\$411,000	
Net income generated from intellectual property rights ^{Note 4}	\$6,336,000	\$6,913,000	
Number of economically active spin-off companies (with breakdown by type) ^{Note 3 & 5}	2	2	No change ^{Note 5}
Net income generated (or net loss arising) from spin-off companies ^{Note 6}	\$135,000	(\$581,000) ^{Note 7}	5% increase
Number of collaborative researches, and income thereby generated ^{Note 8}			
- no. of projects	21	26	
- income generated	\$26,716,000	\$25,229,000	
Number of contract researches (other than those included in “collaborative researches” above), and income thereby generated ^{Note 9}			
- no. of projects	744	779	
- income generated	\$165,386,000	\$165,962,000	

Performance Indicators	2011/12 ^{Notes 1 & 2}	2012/13 ^{Note 2}	Target by end of triennium ^{Note 1}
Number of consultancies, and income thereby generated - no. of projects - income generated	626 \$24,677,000	710 \$39,046,000	
Total of collaborative researches, contract researches and consultancies ^{Note 10} - no. of projects - income generated	1,391 \$216,779,000	1,515 \$230,237,000	5% increase ^{Note 10} (already achieved in 2012/13)
Number of student contact hours in short courses or e-learning programmes specially tailored to meet business or CPD needs ^{Note 11}	246,896	541,585	5% increase (already achieved in 2012/13)
Number of equipment and facilities service agreements, and income thereby generated - no. of agreements - income generated	13 \$576,000	24 \$886,000	1% increase (already achieved in 2012/13)
Income received from Continuing Professional Development (CPD) courses ^{Note 12}	\$8,720,000	\$1,804,000 ^{Note 13}	5% increase
Number of public lectures/symposiums/exhibitions and speeches to a community audience	1,097 ^{Note 14}	1,001 ^{Note 14}	5% increase
Number of performances and exhibitions of creative works by staff or students	69 ^{Note 14}	62 ^{Note 14}	3% increase
Number of staff engaged as members of external advisory bodies including professional, industry, government, statutory or non-statutory bodies	545	621	5% increase (already achieved in 2012/13)
<i>Additional data for reference:</i> No. of external advisory bodies membership held by HKU staff			
- professional	2,031	1,103	
- industry	80	63	
- Government statutory bodies	945	794	
- Government non-statutory bodies	564	498	
- other bodies	402	465	
TOTAL	4,022	2,923 ^{Note 15}	

Notes:

1. Data of previous year and target increases as stated and projected respectively in the Initial Statement for the 2012-15 triennium submitted in July 2012, unless otherwise specified
2. Income/expenditure figures in HKD were rounded to the nearest thousand.
3. The HKU strategy is that licensing rather than spin-off companies should be the preferred route for commercialization because licensing would allow the University to leverage on industry expertise and remain focused in its core capabilities.
4. The target increase in the Initial Statement actually referred to the net income generated from intellectual property rights.
5. Spin-off companies will only be set up if and when deemed necessary or to the best interest of the University.
6. Versitech, the University's technology transfer company, is a minority shareholder in the spin-off companies. It is difficult to predict the companies' sales/turnover due to the volatile business environment.
7. The loss arising from spin-off companies might have been caused by the increased costs incurred by one of the companies in business promotion and marketing. The other company has been facing difficult market conditions.
8. ITF projects with industrial sponsorship and other collaborative projects with at least two partners (one of which being a government or public body) were included.
9. ITF projects without industrial sponsorship, Public Policy Research projects, projects funded by the Food and Health Bureau and the SK Yee Foundation, and other contract research projects were included.
10. It is considered more appropriate to target the increase in collaborative researches, contract researches and consultancies together rather than separately as in the Initial Statement.
11. Taught postgraduate programmes were not included.
12. Expenditures including overheads were deducted. Net income from taught postgraduate programmes was not included.
13. The difference in the numbers between these two years was attributed to the change in the data collection methodology. The data for 2012/13 were extracted from a central information system, which was enhanced in early 2013 to provide a facility for direct data input by course organizers, whereas in 2011/12 the data were collected manually via Faculties.
14. The data for these two indicators in 2011/12 included the University's Centenary events. The smaller numbers this year were attributed to the end of the University's Centenary celebrations in 2012.
15. The Community Service System has recently been enhanced such that data entered by individual academic staff members in respect of their memberships on journal editorial boards could be excluded from the count for external advisory bodies memberships. It was considered that memberships on journal editorial boards were more related to research and should be excluded for the purpose of KE reporting, so there is a decrease in the total number of memberships reported for 2012/13.

Table 2

Other Performance Indicators	2011/12 ^{Note 1}	2012/13	Target by end of triennium ^{Note 1}
Number of placement/internships ^{Note 2}	3,415	4,599	5% increase (already achieved in 2012/13)
Number of books and other media for non-academic audiences ^{Note 3}	378	436	5% increase (already achieved in 2012/13)
Number of mentors from outside HKU for HKU students ^{Note 2}	1,259	1,736	3% increase (already achieved in 2012/13)
Number of knowledge transfer websites ^{Note 4}	122	175	5% increase (already achieved in 2012/13)
Number of postgraduate theses on open access ^{Note 4}	19,768	21,237	5% increase (already achieved in 2012/13)
Download count of postgraduate theses to addresses outside HKU ^{Note 4}	1,012,273	1,133,966	5% increase (already achieved in 2012/13)
Number of publications on open access ^{Note 4}	11,846	12,742	5% increase (already achieved in 2012/13)
Download count of publications to addresses outside HKU ^{Note 4}	364,780	347,499	5% increase
Number of positive media impact related to knowledge transfer coverage, including print, on-line and electronic media ^{Note 5}	12,174	20,744	2% increase (already achieved in 2012/13)
Number of staff available for media contact ^{Note 4}	468	635	2% increase (already achieved in 2012/13)
Number of appointments of external members to HKU advisory boards, committees or panels ^{Note 2}	467	394	2% increase

Notes:

1. Data of previous year and target increases as stated and projected respectively in the Initial Statement for the 2012-15 triennium submitted in July 2012
2. As HKU sees KE as a two-way process, these three indicators refer to the University's efforts to learn from the community.
3. Includes books, book chapters, textbooks, handbooks, public policy reports, and DVDs etc. published mainly for non-academic audiences by HKU staff, but excludes all research publications and patents.
4. These six indicators refer to the University's efforts in making knowledge accessible to society.
5. The number was obtained through the media impact project using an online news platform to pool daily news reports concerning HKU that are KE-related.