



香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY

2013-2014 Annual Report



GLOBAL WISDOM

OBJECTS

(The Laws of Hong Kong: Chapter 1141)

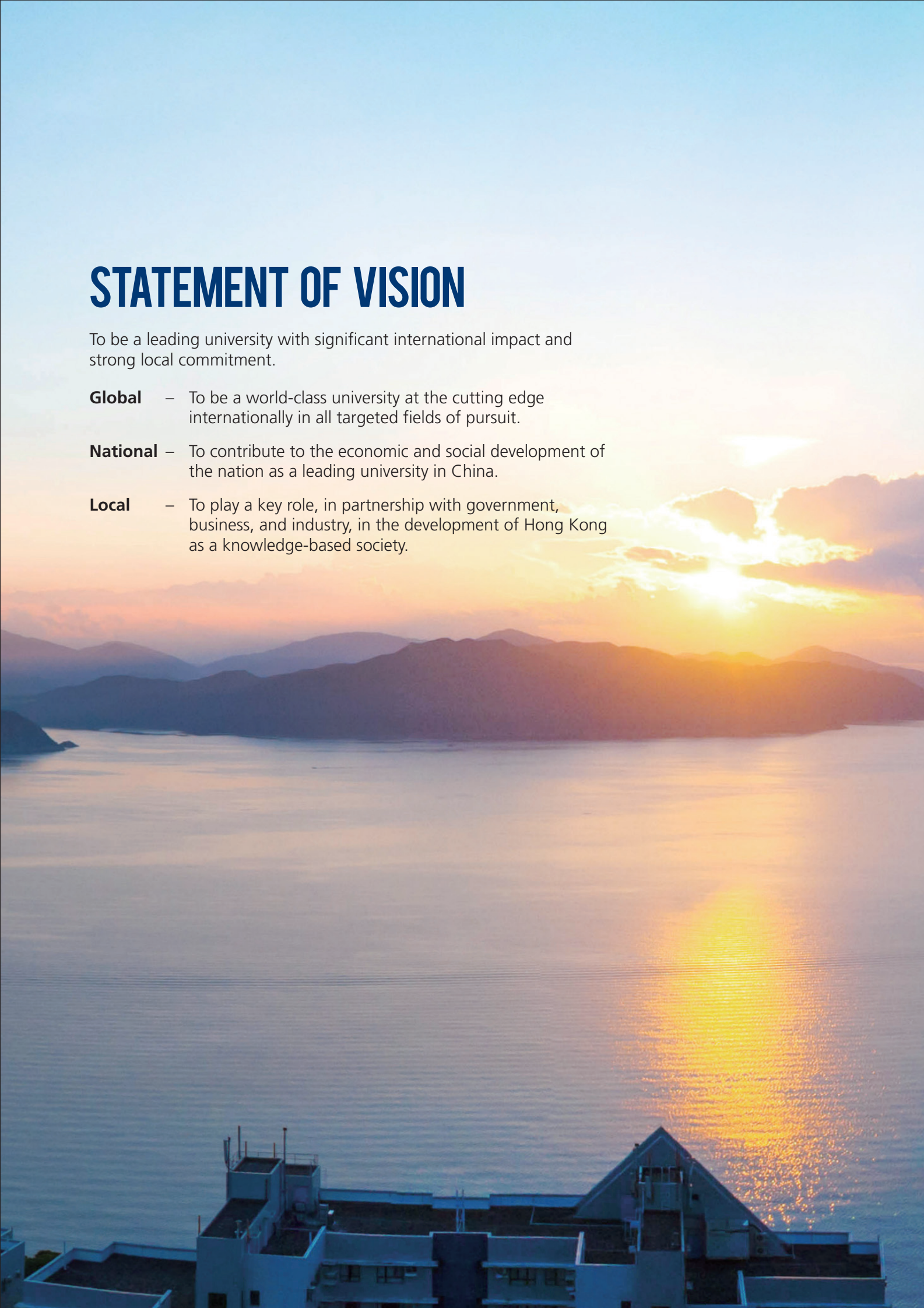
The objects of the University –

- (a) to advance learning and knowledge through teaching and research, particularly –
 - (i) in science, technology, engineering, management and business studies; and
 - (ii) at the postgraduate level; and
- (b) to assist in the economic and social development of Hong Kong.

STATEMENT OF VISION

To be a leading university with significant international impact and strong local commitment.

- Global** – To be a world-class university at the cutting edge internationally in all targeted fields of pursuit.
- National** – To contribute to the economic and social development of the nation as a leading university in China.
- Local** – To play a key role, in partnership with government, business, and industry, in the development of Hong Kong as a knowledge-based society.



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ACTING CHAIRMAN'S FOREWORD

In 2013-14, Hong Kong enhanced its role as a hub for higher education. I am proud to see that HKUST has played a pivotal role in this endeavor through its research, scholarship and other initiatives which have drawn some of the world's top minds to our city.

As laid out in HKUST's Strategic Plan for 2011-16, the University's management and faculty have worked tirelessly towards its goals to excel in research and teaching. Faculty development, innovation and knowledge transfer and the building of bridges to Mainland China and Western countries have all progressed during this past year.



Despite the increasingly competitive global tertiary arena and the fact the Strategic Plan is just midway through its timeframe, the indications for HKUST's future appear bright.

The year under review was only the 23rd since HKUST's establishment. Still, the University secured for the second time the No.1 spot in the QS "Top 50 Under 50" rankings, which highlights universities established within the past five decades. The world-leading academics drawn to the HKUST Jockey Club Institute for Advanced Study and the School of Business and Management, and a highly experienced international administrator recruited to take on the University's campus development during the year, provided further testimony to HKUST's quality education and research. It also signaled confidence in HKUST's capability to continue moving toward its vision to become a leading university with significant international impact and strong local commitment.

Leadership is a critical factor in keeping up momentum and turning strategy into workable advances. The Council was therefore pleased to announce in September 2013 that President Tony F Chan, who has headed HKUST since 2009, will continue his presidency until 2019. President Chan's subsequent election to the US National Academy of Engineering, one of the highest professional honors globally and an accolade

held by only a few in Hong Kong, was another boost for deeper HKUST connections with leading minds working at the forefront of science and technology globally in academia, business and government.

During 2013-14, the Council continued to support HKUST's senior management in its institutional development and governance. Enhanced communication on the University's development plans gave insight into innovations in teaching and learning, resources, and internationalization strategies, and the benefits to students. Sincere thanks go to members of the Court and Council for their readiness to listen and to exchange views in pursuit of their respective roles to guide the University. I commend the work of the President and his team who have pursued the strategic objectives of HKUST with diligence and foresight while ensuring that the campus remains a welcoming and lively meeting ground for all members of the HKUST community.

I would also like to take this opportunity to recognize the contribution of HKUST's late Council Chairman Dr Marvin Kin Tung Cheung (1947-2014), who passed away in September 2014, while this report was being produced. After his appointment as Chairman in 2008, Dr Cheung worked first with Vice-Chairman Dr Michael Hoi Hung Mak, and from 2013 with me, to encourage development of the leadership structure and strategic planning, and to help the University move toward new management and performance criteria. Throughout his years of service as Council Chairman, Dr Cheung showed great interest and commitment to advancing HKUST's development.

As shown in this year's Annual Report, HKUST is making good progress to achieving its Strategic Plan. Over the coming year, we will be planning to celebrate our silver anniversary. We are looking forward to a bright future.

Acting Chairman, University Council
Mr Martin Y Tang



香港科技大學
THE HONG KONG UNIVERSITY OF
SCIENCE AND TECHNOLOGY

PRESIDENT'S REPORT

It seems amazing to note that five years have passed already since I took up the leadership of this remarkable University. It has been a time of great change, with the introduction of Hong Kong's four-year degree system, the double cohort, and the immense preparations jointly undertaken throughout HKUST to handle these developments. Along with continuing achievements in our research and our increasing global presence, it has been a rewarding time to steer the way. So I was delighted to receive the Council's endorsement for a further five-year term in September 2013.

MANAGEMENT VISION

Over the past 12 months, other appointments have been made to our senior management team. These include Mr Mark Hodgson, who was recruited as the new Vice-President for Administration and Business. His 26 years' experience of finance and administration leadership will assist in campus development and long-term facility and staff initiatives. In addition, Prof Jitendra Singh was appointed Dean of the School of Business and Management. Prof Singh has spent the past two decades at Wharton School, University of Pennsylvania. He is a renowned management scholar and educator and his worldwide links with business and academia will be of great value to the School internationally.



THE GLOBAL CAMPUS

It is one of HKUST's major goals to diversify the campus to prepare our some 13,000 undergraduate and postgraduate students for their roles as global citizens. As a result of enterprise and hard work in recruitment, program initiatives, and the attraction of high achievement, HKUST now has the most diverse non-local undergraduate students among University Grants Committee-funded tertiary institutions, with 45% from Asia and the rest of the world and 55% from Mainland China. This has been assisted by the growing number and range of our scholarships, with more than 1,630 leading undergraduates receiving awards for academic and other achievements in 2013-14. We have increased

our focus on the recruitment of female undergraduates into our science and engineering programs. Our postgraduates also continue to diversify.

BROAD AND DEEP EDUCATION

As the first four-year undergraduate degree cohort completed Year 2, the University reviewed courses and advisory systems as students prepared to move on from the Core Curriculum. It was gratifying to see nearly all students attained their first choice of major subject and recognition must be made of faculty members' immense efforts to set up an effective framework and curricula to enable such



PRESIDENT'S REPORT

an outcome. At postgraduate level, the Fall 2013 introduction of a required Professional Development Course covering communication, ethics, and other essential skills is set to help students extend their career prospects in entrepreneurship and industry as well as academic research.

We further developed our Massive Open Online Course (MOOC) provision, and made our own contribution to the development of this blossoming global trend in digital university teaching and learning through a blended learning pilot scheme enabling HKUST students to earn credits through HKUST MOOCs.

RESEARCH RECOGNITION

Spurred by the enthusiasm and drive of our faculty members, the University's research flourished over the year. HKUST secured more than \$485 million in research funding, including awards for 219 new projects from Hong Kong's Research Grants Council. Two Areas of Excellence science projects, led by HKUST, received a total of \$96 million, with other major awards made under the Collaborative Research Fund, Innovation and Technology Fund and the 973 National Basic Research Program. Our targeted strategic partnership initiative with leading universities overseas also began to realize its potential with the provision of seed-funding sponsorship leading to over 35 joint workshops, and more than 70 faculty and student visits.

With the community's steadfast support, the number of endowed chairs rose to 28 during the past year. In addition, our faculty continued to be recognized at the highest levels, with HKUST's sixth faculty member

elected to the Chinese Academy of Sciences, and others receiving State Natural Science and Higher Education Outstanding Scientific Research Output Awards.

ON THE WORLD MAP

In 2013-14, national, regional and global engagement remained an important strategic objective for the University. Official approval from the Ministry of Education for the Joint School of Sustainable Development, developed together with Xi'an Jiaotong University, and the strategic realignment of HKUST's other Mainland platforms will now enable the University to work more cohesively on sustainability, innovation, technology transfer and commercialization in Mainland China.

Internationally, the University maintained its strong presence in world rankings. For the second year in a row, HKUST secured the No.1 position globally in the QS Top 50 Under 50, for institutions less than 50 years old. We were ranked No.18 in the Global Employability University Ranking, with results published in the *International New York Times*. To continue our practice of the last few years to widen knowledge of HKUST and networks further, I led a delegation of faculty and senior management to Latin America where we visited 12 leading universities and six science and technology institutions in three countries. There were management visits to 30 other institutions globally and more than 60 Memoranda of Understanding signed over the year.

I was also very happy to lead faculty experts in hosting the second HKUST IdeasLab session at the "Summer Davos" of the World Economic Forum in Dalian in



September 2013 and to personally attend for the second time the World Economic Forum in Davos, Switzerland, in January 2014. The latter included participation in the Global University Leaders Forum, together with more than 20 other presidents of top universities worldwide.

ADVANCING AND CONTRIBUTING

Another far-reaching and exciting development over the year was our increased activities in relation to the University's enterprise culture. During 2013-14, HKUST's entrepreneurial ecosystem had fostered a total of 35 financially active companies associated with our faculty, students and alumni. A growing range of strategic industrial partnerships with major companies, including Huawei, Thales, UC RUSAL, and Lenovo, have thrived. Over the year, the creation of the new senior post of Associate Provost for Knowledge Transfer and growing student activities in relation to entrepreneurship demonstrated our commitment to practical innovation and business initiation, alongside education and research.

At the same time, we moved steadily forward in our students' social contribution to the community. Awareness of the needs of others, leadership skills, and service learning have been highlighted through programs such as the REDbird Award scheme, HKUST Connect, which now works together with 80 partners in the community on service projects, and a newly piloted Student Leadership Program, which has attracted over 200 students already.

The advancement of campus facilities added further momentum to the University's endeavors. Following the relocation of the School of Business and Management to the Lee Shau Kee Campus, the eight-story Cheng Yu Tung Research and Academic Building will soon be ready, marking another major milestone for our campus development. Some other facilities are undergoing construction and refurbishment, such as The Hub, a student center and coffee shop located in the Piazza, and the Conference Tower right next to the HKUST Jockey Club Institute for Advanced Study.

LOOKING AHEAD

Such directions point the way for further expansion of amenities and programs to give our students the truly life-changing higher education experience that can enable them to fully understand and utilize their potential. Nurtured and bound by the 1-HKUST concept of communal endeavor, they also serve as the foundation for the development of HKUST core values that can serve as a guide and direction finder when faced with challenging times and as a distinctive mark of excellence for the University as a whole.

These are not small ambitions but I believe they are achievable ones, thanks to the dedication and commitment that has already been shown by Council and Court members, faculty, staff, students and alumni. I would also like to thank our community supporters whose strong and heartening belief in our capabilities has kept the University advancing on all fronts. Over the past year, we have taken numerous steps toward a future that will see HKUST become an institution which merely by name stirs up images of achievement, character, endeavor and contributive spirit among people worldwide. In the year ahead, I look forward to working with you all to turn those steps into pathways.

President

Prof Tony F Chan, JP

SPECIAL TRIBUTE

During the compiling of this annual report, the sad news of the passing of our Council Chairman Dr Marvin Kin Tung Cheung (1947-2014) was announced. As President of HKUST, I would like to pay tribute to the contribution made by Dr Cheung to the University's advancement and remarkable achievements. I and other members of senior management were continually supported by Dr Cheung's wise guidance and advice as leader of our Council since 2008 and as Vice-Chairman prior to that. He shared his experience and time generously and HKUST has moved progressively ahead in numerous areas of governance as a result.



(From left):

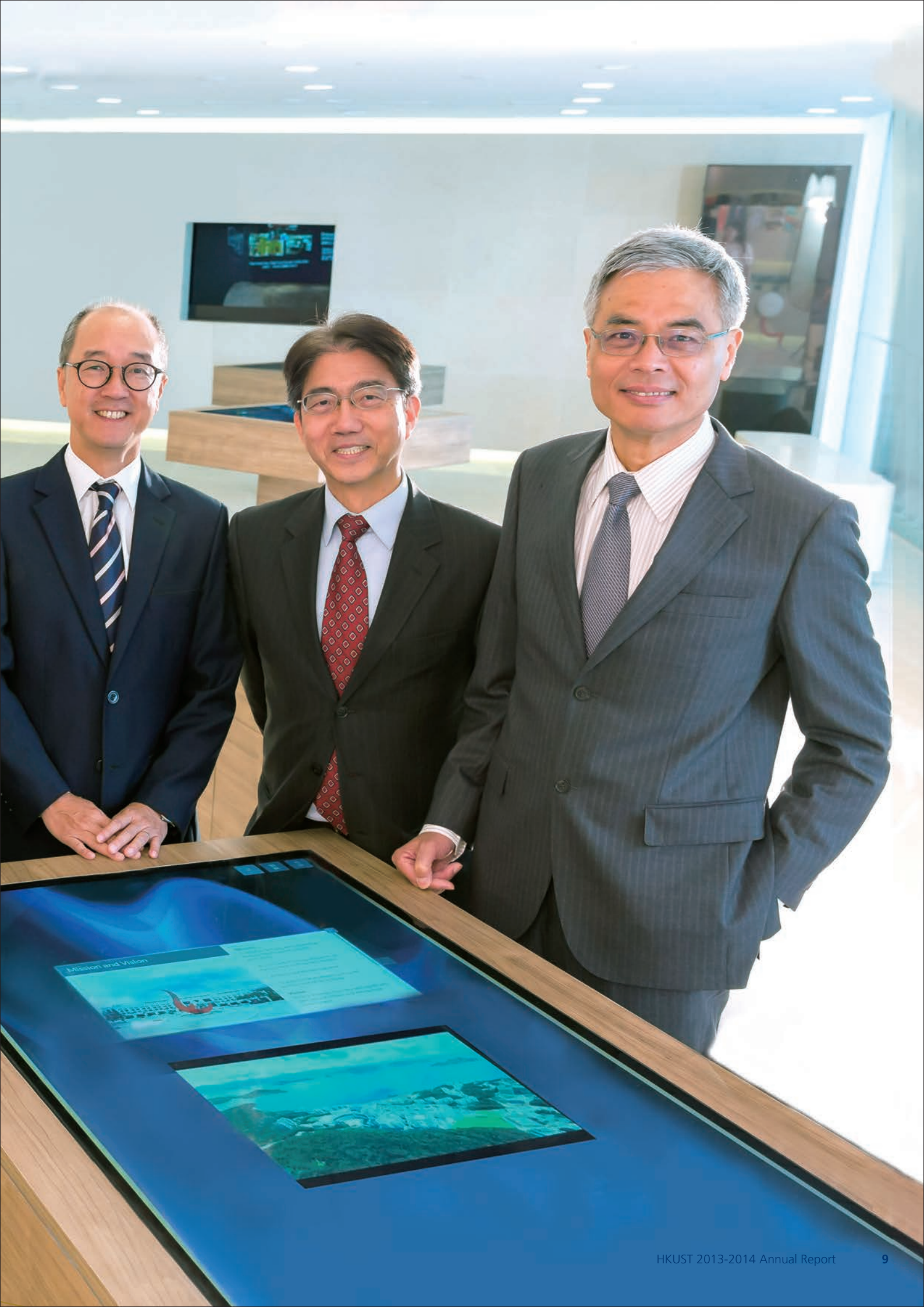
Mr Mark Hodgson
*Vice-President for
Administration and Business*

Dr Eden Y Woon
*Vice-President for
Institutional Advancement*

Prof Tony F Chan
President

Prof Joseph Hun-Wei Lee
*Vice-President for Research and
Graduate Studies*

Prof Wei Shyy
Executive Vice-President and Provost



EDUCATION DEVELOPMENT

Increasing diversity among the student population, on-going advances with the four-year degree system and a leading role in the global move to provide Massive Open Online Courses have made 2013-14 a fruitful year

UNDERGRADUATE EDUCATION

Attracting High Caliber Students

HKUST has continued to recruit top students to its undergraduate and postgraduate programs and to diversify the campus population, with a growing number of scholarships playing an important part. In the year under review, 1,637 undergraduate students received scholarships, amounting to \$50.34 million, an increase of 49.5% over five years. Awards included prestigious, tertiary-wide competitive schemes. Eight of the University's students received Innovation and Technology Scholarships, almost 30% of the total number of awards across Hong Kong, while four were awarded HKSAR Targeted Scholarships, 40% of the total.

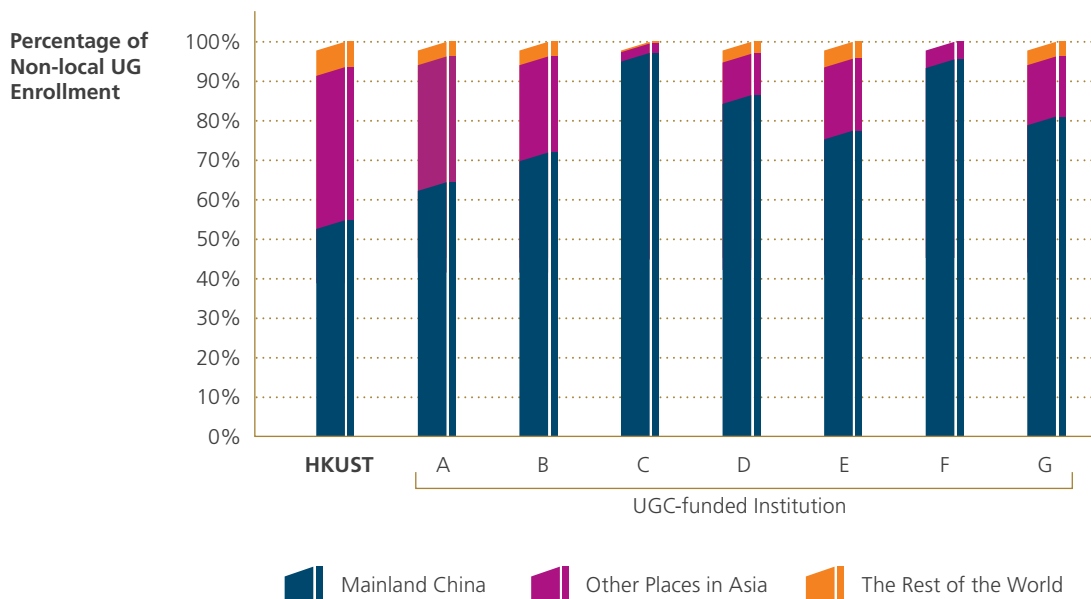




Building Diversity

Scholarships can also assist diversity on campus, a key goal for recruitment to equip graduates for an increasingly globalized working life and society. In 2013-14, non-local undergraduates at HKUST constituted the most diverse group of non-local undergraduate students among UGC-funded institutions, with approximately 55% from Mainland China, 39% from other places in Asia, and 6% from the rest of the world.

Non-local Undergraduate Enrollment of UGC-funded Programs by Institution
– Breakdown of Non-local UG Enrolled Students by Origin, 2013/2014 –



Data source: UGC

EDUCATION DEVELOPMENT

With the non-local undergraduate intake now reaching 20% of the total, the University has further broadened recruitment. HKUST representatives attended education fairs and held information sessions in a wide range of countries, targeting Mainland China, India, Malaysia, Indonesia, France, Germany, Canada, Switzerland, the United Kingdom, Scandinavia, and others. In addition, admission interviews were held in the United Kingdom, Taiwan and Mainland China with a positive response from prospective students in each location and around 1,350 attending interviews in total.

Gender diversity is another priority. In partnership with the Women's Foundation and ANZ, the University has established Women in Science and Engineering (WISE) Scholarships to encourage first and second-year female undergraduates at HKUST to pursue science and engineering degrees. Together with the Women Faculty Association, HKUST ran the second Women in Science and Engineering (WISE) program in July 2013. Over 90 senior-secondary students took part.

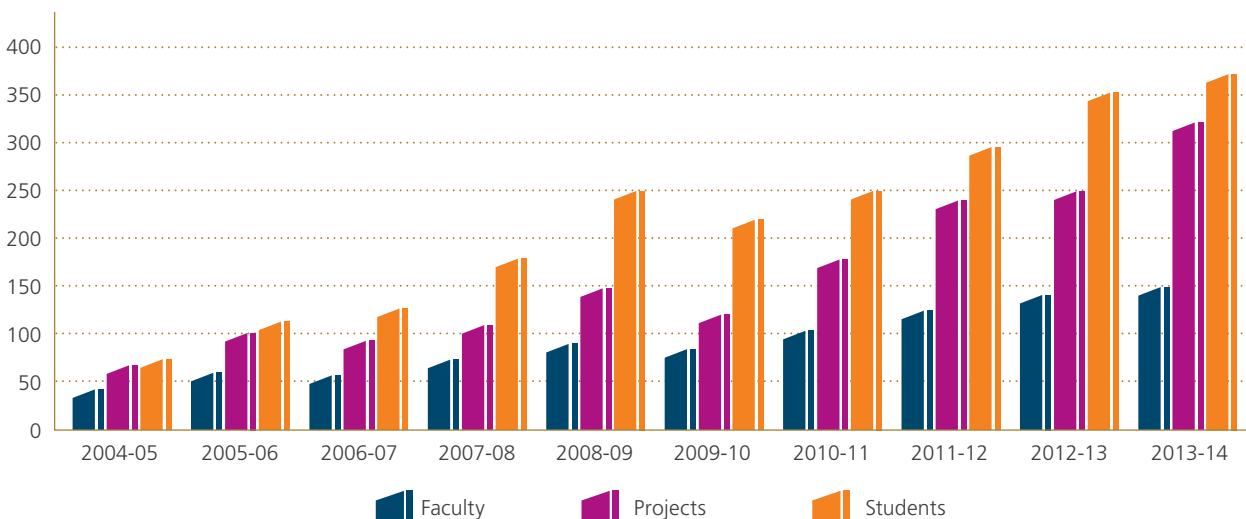
Four-Year Degree Making Good Progress

In 2013-14, the first cohort of four-year students under Hong Kong's new undergraduate degree system completed Year 2. In designing the new curriculum, a high-quality Undergraduate Common Core was a critical goal, including studies across sciences, technologies, social analysis, arts and humanities, and courses to enhance English and Chinese language skills and quantitative reasoning. In their first and second years, students build the foundation necessary to pursue specialist major programs. Schools used the experience gained over the past two years to review their foundation courses to ensure they were well aligned with students' academic preparation on entry.

To help students make their choice of major, Schools have built up their capability to provide academic advising and mentoring. Faculty advisors form the core of these operations, while senior students serve as peer advisors. Professional advising and counseling are also provided.



UROP Development (2004-05 to 2013-14)



The result of these efforts and the increasing flexibility of programs is that almost all students have been able to enter their first choice of major.

BROADER OUTLOOK

The Undergraduate Research Opportunities Program (UROP) continues to thrive with 148 faculty members contributing to the program and almost 400 students embarking on a journey of discovery. A Year 2 Physics student, winner of the 2014 Mr Armin and Mrs Lillian Kitchell Undergraduate Research Award, presented his new theory on network reliability at two international academic conferences in Poland and Canada in summer 2014. Meanwhile the International Research Opportunities Program (IROP) moved into its third year, giving undergraduate students the chance to participate in faculty-led research at overseas universities, including the MIT-HKUST Summer Research Exchange Program.

In 2013/14, more than 900 students took part in exchange studies with almost 200 partner institutions, with support totaling \$4.65 million. In addition to the University's Exchange Sponsorship Scheme, corporate donors and community leaders generously support exchange study through scholarships. Over 90 students were awarded a total of \$2.94 million scholarships for their overseas exchange experience over the year.

As students prepare themselves for careers, recruitment activities such as Career Mosaic and placement courses, programs and talks offer a head start. Another valuable way to learn about work is through internship schemes, with University provision including the Internship Learning Scheme, SOAR Mainland Internship Program and the ASEAN Internship Program. Schools and departments are also active in providing and supporting internships. Among the new developments, two students from the Global China Studies Program interned with the US Congress.

Wider Community Service and Student Well-being

Service learning is an increasingly important component of students' education at HKUST. Under the REDbird Award program 125 students participated in 77 service learning projects in 2013-14. HKUST Connect collaborates with over 80 community partners to offer different types of service opportunities. In 2013-14, over 2,600 participants took part in 111 service projects, including 11 service learning trips to Mainland China, Cambodia, Malaysia and the United States. A Student Leadership Program was piloted in Spring 2014. More than 235 students have benefited from workshops and a study trip.



Students' willingness to care for others also saw two undergraduates receiving the Top 10 Outstanding Youth Awards, presented by the HKSAR Home Affairs Bureau and Commission on Youth. In addition, the new Counseling and Wellness Center opened during the year, creating a fun space and resource center for students to mingle, relax, seek resources, and work towards balanced healthy living.

Deepening Campus Integration

The Students' Union, International Students' Association, and Mainland Students and Scholars' Society (Undergraduate section) jointly organized a week-long conference on campus diversity and student integration, bringing together over 50 student leaders from HKUST and overseas universities. Other student-initiated activities continued to be encouraged via a range of schemes, including the 1-HKUST Student Life Award, Student Enrichment Activities Fund, Graduate Student Life Fund, and publications such as the Orientation Activities Toolkit for Student Organizers. Events such as TEDxHKUST were successfully organized on campus.

Developing Sports and Arts

The University took home the overall championship in the Inter-University Archery Tournament, won the flat-water rowing M2X event, and triumphed in the University Sports Federation of Hong Kong, Mainland China – Rugby Competition. The soft opening of the HKUST Water Sports Center in October 2013 was celebrated with a Dragon Boat Fun Race. Creative pursuits included the month-long HKUST Arts Festival, the HKUST Mural Art Project, and the HKUST Music Alive! concert series, all drawing attention to the role of arts in innovation.

EDUCATION DEVELOPMENT

Reaching Out to the Next Generation

The 2013 HKUST Information Day attracted over 30,000 visitors from the secondary school sector, while a JUPAS admission briefing session was organized for local secondary school teachers in November 2013 to share the University's experience on the admission of the first two HKDSE cohorts.

President Chan hosted two luncheons for local secondary school principals and teachers and Hong Kong-based international secondary school principals and teachers respectively. Briefing sessions were also held for parents of international schools in Hong Kong. Following last year's successful visit, a second group of teachers from notable French high schools visited the campus to experience HKUST life and encourage students to apply to the University.

POSTGRADUATE EDUCATION

The postgraduate student population saw overall growth of 7.6%, compared with the previous year, with a total headcount of 4,242, as of 31 December 2013. Growth was seen in both research postgraduates and taught postgraduates. Recognition of HKUST's standing in the research community was further demonstrated by its continuing success in the Hong Kong PhD Fellowship Scheme. The University received the largest number of awards among institutions, securing 65 out of a total of 223 across Hong Kong, representing 29% of the awards offered.

The Joint School of Sustainable Development, a collaboration between HKUST and Xi'an Jiaotong University, saw its first cohort of research students start their studies. A total of 27 students are involved in the program.

Research Student Support

A new matching-fund scheme was launched in 2013-14 to encourage recruitment of local research postgraduates. Meanwhile, the percentage of international students among non-local research postgraduates continued to increase, reaching 10% in 2013-14. Another matching-fund scheme for international visiting internship students was launched in Spring 2014 to draw students from a select group of institutions to HKUST to encourage them to pursue research postgraduate studies at the University. The new scheme helped the University receive 109 visiting internship students in 2013-14, up from 64 the previous year.

To enhance professional knowledge, ethical standards, and transferrable skills of research postgraduates, a required Professional Development Course (PDC) was introduced from Fall 2013. The Overseas Research Awards Scheme increased from 24 to 36 awards, offering senior PhD students the valuable experience to participate in research work abroad. Attendance at conferences also continued to be supported through the research travel grant program.



New Taught Programs

Student numbers for taught postgraduate programs rose to 2,532, as of 31 December 2013, from 2,399 the previous year, with the main increase in full-time programs. Over 50% of the students were from outside Hong Kong. Many different countries were represented. While Mainland China remained the predominant source, the number of international students rose to 13% in 2013-14. Four new MSc programs were introduced in 2013-14: Environmental Health and Safety (School of Science); Global Operations (School of Business and Management); International Management (School of Business and Management); and Global China Studies (School of Humanities and Social Science).

In the inaugural year of the Ford-HKUST Conservation and Environmental Research Grants Program for Master of Science engineering students, a total of 23 projects were selected and funded.

GLOBAL TRENDS AND ADVANCES

Following a Memorandum of Understanding signed by HKUST and Oxford in 2013, the Oxford-HKUST Leadership and Public Policy Series was launched in January 2014 to provide quality executive education to senior members of the public sector in Hong Kong, Mainland China and Asia. The University is also collaborating with Smith College to launch the HKUST-Smith Leadership Program for Women. During 2013-14, more than 60 Memoranda of Understanding were signed with international partners.

There was further growth in HKUST's provision of Massive Open Online Courses (MOOCs), university-level courses open to anyone linked to the internet. Following initial programs offered on Coursera, a major global platform, the University prepared three courses for edX, another leading provider. A blended learning pilot scheme was also offered for HKUST students to earn credits through HKUST MOOCs if they also completed face-to-face coursework during the summer, which contributes to solving the verification challenge facing MOOCs globally.

Taking a lead in how to bring together students from different cultures, HKUST hosted the 9th University Administrators Workshop: Promoting the Integration of Local and International Students to Create a Vibrant and Stimulating Learning Environment. The workshop included over 170 university staff from 48 institutions around the globe.

HKUST's holistic, internationalized approach to education was recognized when the University was ranked No.18 in the high-profile Global Employability University Ranking 2013, the only institution in Greater China in the top 20.



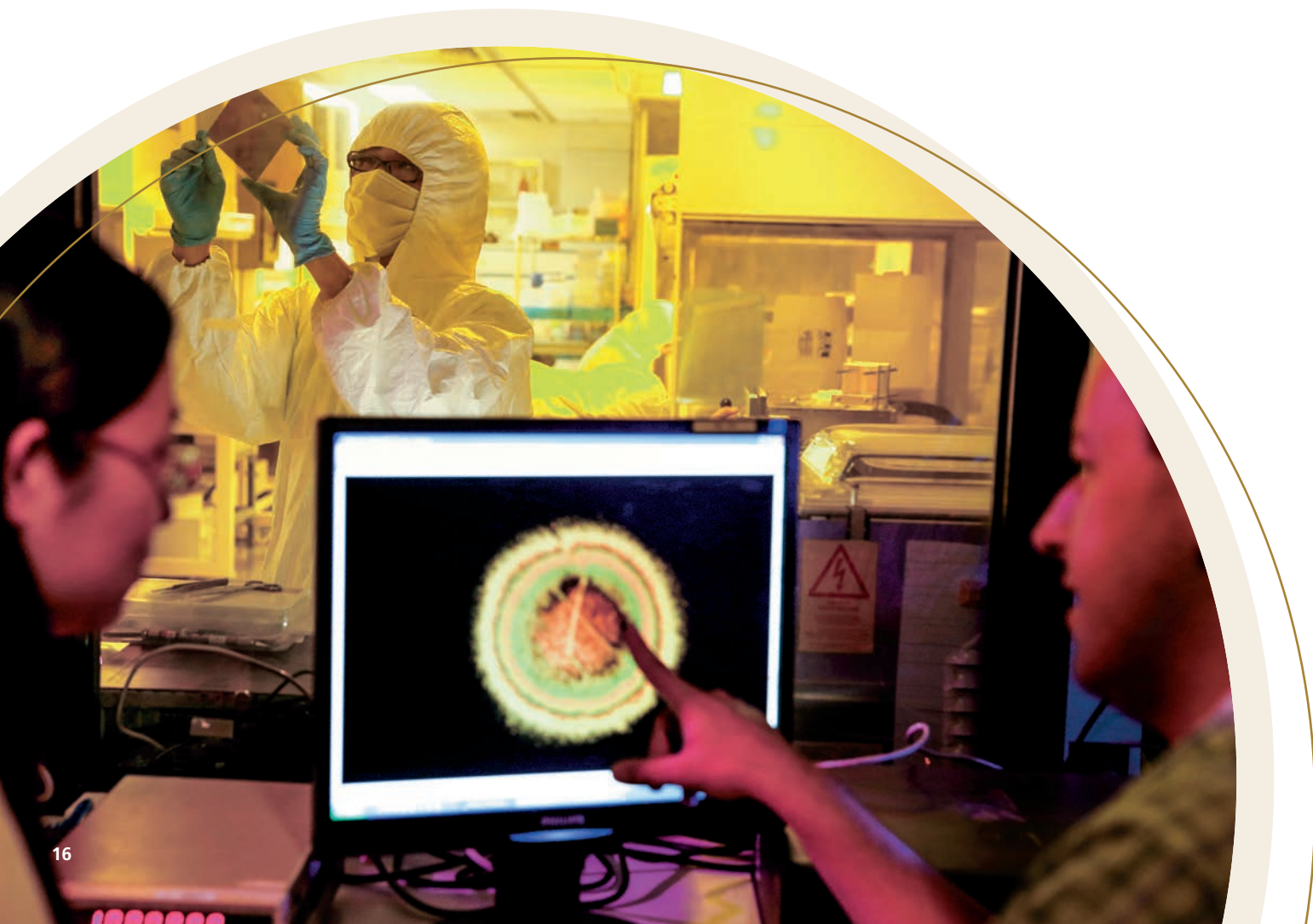
RESEARCH DEVELOPMENT

HKUST has built on its existing strengths to push forward research frontiers, transfer new knowledge and applications to the wider community, and inspire an entrepreneurial culture on campus and beyond

In 2013-14, the University secured total research funding of \$485 million from various sources, the largest of which was from Hong Kong's Research Grants Council (RGC). A total of 219 new research projects were awarded by RGC, with a total project value of \$177 million. HKUST researchers also achieved the highest success rate (51%) among local institutions in the competitive 2013 General Research Fund exercise.

SPEARHEADING DISCOVERY AND INNOVATION

Two HKUST-led Areas of Excellence science projects focused on Novel Wave Functional Materials for Manipulating Light and Sound and Mechanistic Basis of Synaptic Development, Signaling and Neuro-disorders were awarded a total of \$96 million. Another \$23 million was awarded under the Collaborative Research Fund for three projects entitled New Topological States in Cold Atom and Condensed Matter Physics Systems, Research in Fundamental Physics: From the Large Hadron Collider to the Universe and Super-resolution Imaging: Revealing the Molecular Organization of Subcellular Organelles.





Twenty-one HKUST-led projects were awarded funding by the Innovation and Technology Fund. Among them, \$11 million was awarded for aerospace engineering projects, a new strategic area of development at HKUST in synchronization with the rapid development of aerospace engineering in the Asia Pacific region. Other projects cover applications for energy and sustainability, and healthcare, electrical and electronics, information technology, nanotechnology and biotechnology.

A 973 National Basic Research Program on Structural Biology of Protein Complexes Regulating Neuronal Development and Signal Transduction within Peking University-HKUST-Shenzhen Medical Center was awarded a project fund of around RMB22 million by the Ministry of Science and Technology. The Partner State Key Laboratory on Advanced Displays and Optoelectronic Technologies, a joint initiative with Sun Yat-Sen University, commenced operations after gaining approval from the Ministry of Science and Technology. It received \$13.75 million funding from the Innovation and Technology Fund.

The Institute for Environment saw significant group projects developed, among them smart urban water supply systems, innovative wastewater treatment, and advanced sustainable materials. The Atmospheric Research Center was established to carry out frontier research on air quality.

In the inaugural invitation for the establishment of Hong Kong branches of Chinese National Engineering Research Center (CNERC) by the Ministry of Science and Technology, HKUST submitted seven proposals covering a variety of research strengths, including robotics and autonomous systems, solid-state lighting systems, big data, visual computing, aggregation-induced emission-based materials, and Chinese medicine.

In March 2014, the HKUST Energy Institute held its inaugural forum on sustainable energy. The University also celebrated the official opening of the HKUST-Qualcomm Joint Innovation and Research Laboratory. Qualcomm Inc. donated US\$200,000 as initial funding. Regarding economic development, the HKUST Institute for Emerging Marketing Studies (IEMS), supported by Ernst & Young, collaborated with the World Bank's Network of Jobs and Development initiative.

In organizational research moves, the HKUST Robotics Institute was established as a unique interdisciplinary platform to lead basic and applied research in robotic technologies at the University. The Super-resolution Imaging Center was set up to develop cutting-edge microscope technology for visualizing living cells less than 20 nanometers, an important enabler for frontier life science research.



RESEARCH DEVELOPMENT

MAINLAND PLATFORMS AND STRATEGIC ALLIANCES

The University has several research bases in Guangdong, namely the Fok Ying Tung Research Institute (FYTRI) in Nansha, the Shenzhen Research Institute and the Peking University-HKUST-Shenzhen Medical Center, and the HKUST LED-FPD Technology R&D Center at Foshan. In 2013-14, RMB44 million of grants was secured through these platforms.

In strategic moves to increase impact, FYTRI was repositioned to lead HKUST technology transfer activities in Mainland China. The Shenzhen Research Institute launched an Innovation and Entrepreneurship Center to better support technology transfer and entrepreneurship activities while the Biopharmaceutical Research Center and RFID Center began operations. The HKUST LED-FPD Technology R&D Center at Foshan obtained certification from China National Accreditation Service to provide national-level third-party testing services. The Center will further develop its high value-added LED products and technical consultancy services to assist local and regional industry. In June 2014, the Center received funding of RMB3 million from the Nanhai Government in continued support for its work.

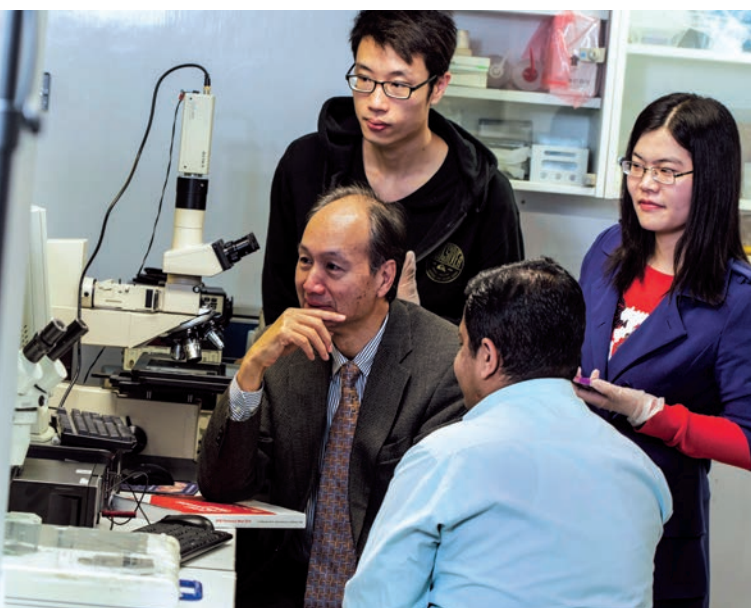
On the international front, the University launched a seed-funding Sponsorship Scheme for Targeted Strategic Partnerships to build collaborative research initiatives with overseas strategic partners. Nineteen awards were made for partnerships, which involved École Normale Supérieure, the California Institute of Technology, the University of Southern California, École Polytechnique Fédérale de Lausanne, and Technische Universität München, encompassing science, engineering, business, humanities and social science, and interdisciplinary studies.

HKUST is also participating in the €1.5 million Erasmus Mundi EURASICAT project on material science and catalysis, involving 11 universities and institutions in nine countries in Europe and Asia. Prof King Lun Yeung, Chemical and Biomolecular Engineering, is serving as the Asia coordinator.

KNOWLEDGE GENERATION AND TRANSFER

With the University's rich research culture, 101 inventions were recorded and 166 new patent applications filed. Three major technology patent portfolios were established, covering novel acoustic materials, aggregation-induced emission materials and their applications, and novel medical devices. With 68 newly granted patents, the University's total current IP portfolio, including satellite campuses, comprises 831 active patents and patent applications. The Proof-of-Concept Fund continued to provide important gap-funding support for faculty members working toward technology commercialization with 9 new projects receiving the Fund during 2013-14.

During 2013-14, the HKUST R and D Corporation (RDC), a separate not-for-profit legal vehicle wholly owned by the University, was engaged in 207 contract research and consultancy projects (154 contract research projects and 53 consultancies), amounting to \$64.8 million received in total. RDC signed 134 new contract research and consultancy agreements, with a total value of \$62.8 million. University research centers performed 524 analytical and testing jobs, generating a total of \$2.6 million. RDC managed 41 active licensing agreements, with such commercialization generating \$4.3 million in total.





To increase participation and activities related to knowledge transfer and to raise the profile of the University's enterprise culture, a new post of Associate Provost for Knowledge Transfer was instituted, with Prof Patrick Yue, Electronic and Computer Engineering, Founding Director of the Center for Industry Engagement and Internship and an experienced start-up entrepreneur, appointed to the post.

THRIVING INDUSTRY PARTNERSHIPS

Open innovation events such as workshops, networking sessions, open days and others were successfully organized, including the HKUST-Lenovo Joint Workshop on Microelectronics and Integrated Circuits, HKUST-GE China Technology Center Workshop on Big Data, and Biomedical Engineering Industry Day.

Strategic industrial partnerships also flourished. At the HKUST-Huawei Joint Innovation Laboratory, research covers big data and analytics, wireless networks cloud computing architecture, and related areas. In 2013-14, 16 frontier research initiatives were identified, with total funding of close to \$30 million provided by Huawei. Other partnerships involve Thales and Chiaphua Industries. Of the Top 100 Global Innovators 2013, as selected by Thomson Reuters, 41% have undertaken collaborations and partnerships with HKUST.

The University boosted awareness of its technologies through participation in international and national exhibitions. The International Conference & Exhibition of the Modernization of Chinese Medicine & Health, Eco Expo Asia, China Hi-Tech Fair, and BIO International Convention 2014 were among the showcases joined.

FOSTERING AN ENTREPRENEURIAL ECOSYSTEM

E-Academy, a student-led unit of the University's Entrepreneurship Center, successfully completed its pilot phase. In 2013-14, E-Academy hosted six activities involving about 700 students, including the first Hackathon@HKUST and Entrepreneurship Week.

The HKUST Entrepreneurship Startup Workshop Series, a 64-hour training course, was offered to the University community, attracting total attendance of over 400 students and alumni. A similar workshop series was offered to 15 small and medium-sized enterprises in Foshan, in partnership with the HKUST LED-FPD Technology R&D Center at Foshan. In addition, the Entrepreneurship Center offered seven Build Your Own Business (BYOB) seminars, with over 700 participants.

Start-up support for faculty, staff and students at the University continued under the HKUST Entrepreneurship Program. During 2013-14, there are a total of 35 companies nurtured by the program who are financially active, comprising 26 spin-offs and 9 start-ups currently being incubated. The fourth annual HKUST Million Dollar Business Plan Competition in June 2014 saw 117 teams participating. The President's Prize Winner was m-Care Technology Limited, which proposed commercializing an innovative heart arrhythmia monitoring product.

HKUST Venture Entrepreneurship Network, a student-run cross-disciplinary organization, held a Venture Entrepreneurship Festival in May 2014. The festival included a Technology & Idea Showcase for faculty, students, alumni, and industry. The flagship programs, Venture Mentor Service, Venture Link, Tech Link, and Ideation Lab, were also launched.

RESEARCH HIGHLIGHTS ADVANCING CHANGE

HKUST faculty members have continued to make significant contributions to academia and to the world through numerous breakthroughs and innovations

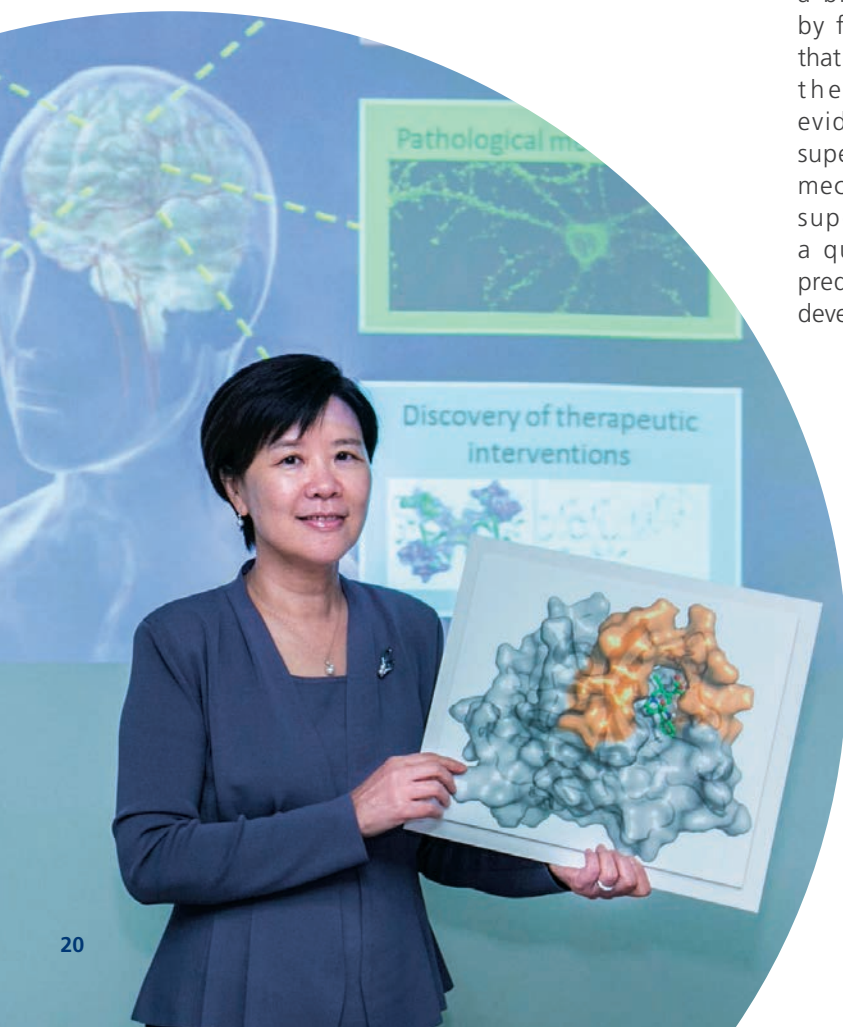
ALZHEIMER'S DISCOVERY

The Morningside Professor of Life Science Prof Nancy Ip (Life Science) and her research team discovered a novel molecular target for Alzheimer's disease, unveiling a potential new therapy for the disease. The team found that A β can cause aberrant activation of the protein EphA4, triggering a signaling pathway that results in cognitive impairment. They demonstrated that EphA4 is the key player in the pathogenesis of Alzheimer's disease. The team then explored the potential of manipulating this pathway as a possible therapeutic intervention. Molecular docking analysis, undertaken in collaboration with Prof Xuhui Huang (Chemistry),

saw the identification of a naturally occurring compound from a traditional Chinese medicine database. This small molecule can rescue the synaptic impairment that underlies cognitive impairment as well as reduce disease pathology in animal models, demonstrating a potential new clinical intervention. The ground-breaking discoveries have been published in Proceedings of the National Academy of Sciences of the United States of America (PNAS).

QUANTUM JUMP

Researchers led by Profs lam Keong Sou, Jiannong Wang, Rolf Lortz, and Kam Tuen Law (Physics) achieved a breakthrough in topological superconductors by fabricating a novel Bi₂Te₃/FeTe heterostructure that enjoys rare two-dimensional super-conductivity at the interface. They also provided strong evidence for the two-dimensional nature of the superconductivity observed and addressed possible mechanisms of this phenomenon. The topological superconductor developed by HKUST can trap a quasi-particle known as "Majorana fermion", predicted theoretically in 1937, and advance practical development of a quantum computer.



ADDING TO NUMBER THEORY

Prof Xuhua He (Mathematics) applied his algebra and number theory research on the properties of elements in Weyl groups to answer important open problems related to the dimensions of geometrical objects known as Deligne-Lusztig varieties. Prof He's paper was published in *Annals of Mathematics*. Prof He's research also brought him the Morningside Gold Medal.

UNDERSTANDING PHOTOSYNTHESIS

Research led by Prof Xuhui Huang and Prof Yijing Yan (Chemistry) has helped solve a long-standing question on fundamental mechanisms of photosynthesis. In photosynthesis, sunlight is used to extract electrons from water to produce oxygen. The reaction occurs in the photosystem II protein. This contains pigments distributed symmetrically in two branches. However, only one branch is involved in producing oxygen. By applying molecular dynamics and quantum mechanics calculations, HKUST researchers discovered that the dynamic and asymmetric protein environment makes one specific chlorophyll, CLA606, in the active chain significantly easier to be excited by sunlight energy, leading to electron transfer along the active chain. The work provides insight for the design of artificial photosynthetic systems that could serve as alternative energy devices.

EASING RUSH HOUR

Dr Chi Ho Yeung and Prof Michael Wong (Physics), in collaboration with Aston University, United Kingdom, derived a novel approach for coordinating optimal routes for individual passengers. Logistics, air traffic, and communication networks, such as the internet, may also benefit. The new method aims

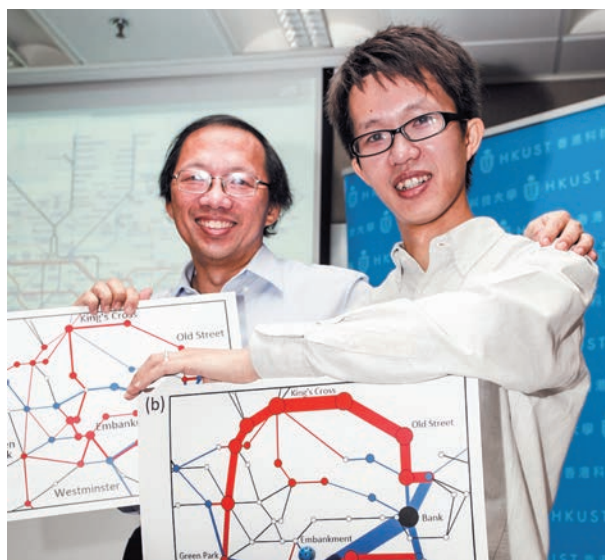
to coordinate individual routes to avoid congestion in peak hours and to optimize the use of resources in off-peak hours. Findings were published in the *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, and highlighted in *Nature Physics*, *PNAS science blog*, and the science news website *Phys.org*.

FUELING THE FUTURE

Prof Tianshou Zhao (Mechanical and Aerospace Engineering) and his team's work on Direct Alcohol Fuel Cells have focused on their research entitled "Characteristics of Coupled Multiphase Heat and Mass Transfer and Electrochemical Reactions in Fuel Cells" in the physical and chemical processes of fuel cells, successfully revealed the underlying mechanism of coupled heat/mass transfer and electrochemical kinetics in fuel cells, and established a new theoretical framework. The use of this theoretical framework enables the performances of Direct Methanol Fuel Cells and Direct Ethanol Fuel Cells to be six and four times higher than the previous ones, respectively.

ENERGY EFFICIENCY BOOST

Prof Kei May Lau (Electronic and Computer Engineering) and her research team have developed a novel "match-making" technology to deposit next-generation high-speed energy-efficient transistors on silicon using high-mobility compound semiconductor materials. These devices seek to reduce power consumption by as much as 10 times and increase switching speed five-fold. The team received the JSAP Outstanding Paper Award by The Japan Society of Applied Physics, the only research team in Hong Kong and Mainland China to receive this award in its history since 1979.





evidence from a large-scale field experiment on a leading social networking site in China. The results, replicated in surveys on subjects in the United States, uncover managerial implications for product diffusion and social media marketing.

FRESH THEORIES ON 3D WORLD

Dr Tian Fang (Computer Science and Engineering) and collaborators from Beijing Normal University and Wuhan University have developed theories and methods of earth surface feature modeling and visualization based on multi-sensor spatial data that advance research and application of image segmentation and intelligent data 3D scene reconstruction. They have put forward a series of novel approaches for denoising images and point clouds with missing data, noise and complex backgrounds. They have also promoted the development of object recognition and segmentation technologies and improved the theories and methods of multi-sensor data-driven 3D reconstruction, forming unique theory systems for automatic reconstruction of 3D city models.

IPO UNDERPRICING

A study by Prof Mingyi Hung (Accounting), with Prof Hyun Hong (University of California, Riverside) and Prof Gerald Lobo (University of Houston), has found a decrease in Initial Public Offering (IPO) underpricing and an increase in relative proceeds from foreign markets following the adoption of mandatory International Financial Reporting Standards (IFRS). The research was published in *The Accounting Review*.

INFLUENCING CHOICE

Prof Michael Zhang (Information Systems, Business Statistics and Operations Management), Prof Feng Zhu, (Harvard Business School) and Prof Monic Sun (Boston University), explored how people trade off the fundamental human needs to belong and to be different in social networks, through analysis of

RATING PERFORMANCE

Prof Ellick Wong (Management) investigated performance differentiation in performance evaluation, proposing and testing the notion that differentiation of ratings is a result of anchoring and adjustment. The prediction was supported by results in a pilot study involving gymnastics in the London 2012 Olympic Games and a main study in which the initial performance dispersion of rates was experimentally manipulated.

STUDENT DIVERSITY

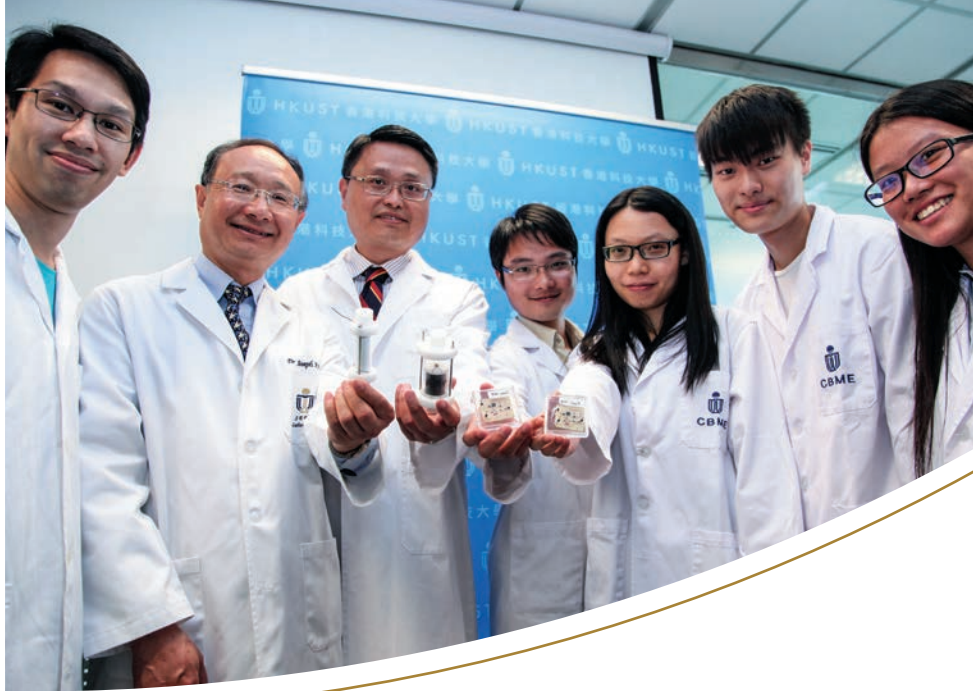
Using data from Peking University and Soochow University, Prof James Lee (Social Science) and Prof Cameron Campbell (Social Science) documented the distinctive diversity of China's university students as a result of the college entrance examination system known as the gaokao in a 2013 Chinese-language book *Silent Revolution: The Social Origins of Peking University and Soochow University Undergraduates, 1949-2002*. The book was co-authored with Chen Liang and published by Beijing Sanlian.

ORIGINS OF PUBLIC FINANCE

Prof Wenkai He (Social Science) published *Paths Toward the Modern Fiscal State*, England, Japan, and China (Harvard University Press), describing the rise of modern public finance that revolutionized the world's economies. Prof He compares the paths of the three countries to discover why some governments developed the tools and institutions of modern public finance, and others, facing similar circumstances, failed to do so, and the consequences that resulted.

KNOWLEDGE TRANSFER

HKUST develops technologies to help drive the future



SAVING WATER

The UNESCO-IHE Institute for Water Education formed a partnership with HKUST under an international consortium to undertake a three-year water-saving project in Cuba. This includes the adaptation of HKUST's innovative SANI urban water management system, developed by Prof Guanghao Chen (Civil and Environmental Engineering) and his collaborators, the conversion of part of a tourist resort near Havana to seawater toilet flushing, and reuse of wastewater for onsite irrigation, to serve as a showcase for other cities in Cuba. The project is funded by the European Union and UNESCO-IHE.

CLEANING UP

A team led by Prof King Lun Yeung (Chemical and Biomolecular Engineering and Division of Environment) and Prof Joseph Kwan (Health, Safety and Environment Office and Division of Environment) have invented a mini pulsed electric field device which could reduce more than 90% of bacteria in running tap water in a few seconds. The technology offers a possible way to control water-borne diseases caused by microbial contamination of water.

3D MAPPING TECHNOLOGY

Prof Long Quan (Computer Science and Engineering) and his team have developed a useful mapping technology, utilizing an algorithm which can map the views of buildings and landmarks according to the images obtained. The current mapping technology of Google uses manual interactive methods which may not be accurate. The missing parts are manually filled which may not be accurate. The HKUST breakthrough replaces manual input involved in current 3D mapping technology, enhancing the accuracy of images. The University is collaborating with Google, ST Engineering (Singapore), TOPRS (China), Thales Group to build up 3D maps.

MATERIAL ADVANCE

A research team led by Prof Yui Bun Chan (Civil and Environmental Engineering), with support from global aluminum producer UC RUSAL, has discovered a new aluminum composite. The new material, fiber reinforced aluminum, is stronger than existing aluminum, less expensive and lighter than steel. It can also be used with insulation panels designed to produce a safer and more energy-efficient building envelope system. The project is now undergoing its final phase and is expected to complete in 2015.

APP FOR AUDITORY TRAINING

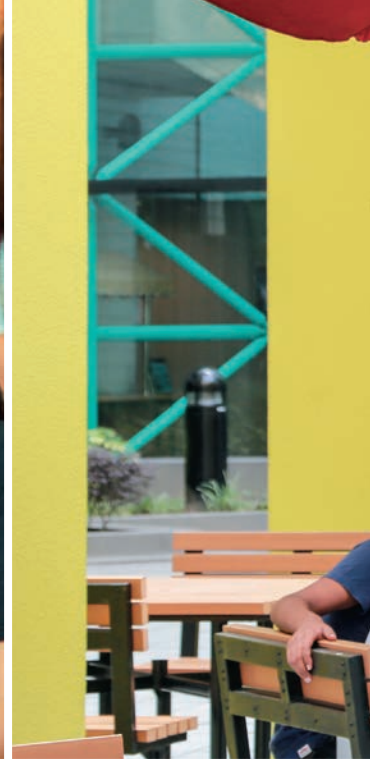
Prof Albert Wong, Prof Tim Woo and Mr Kobe Lam, Research Assistant, (Electronic and Computer Engineering), have developed an auditory and speech training app for hearing-impaired children, which revolutionizes existing paper-based auditory training tools via Android-based mobile app technology. This mobile app facilitates convenient home training and provides better support to parents and teachers.



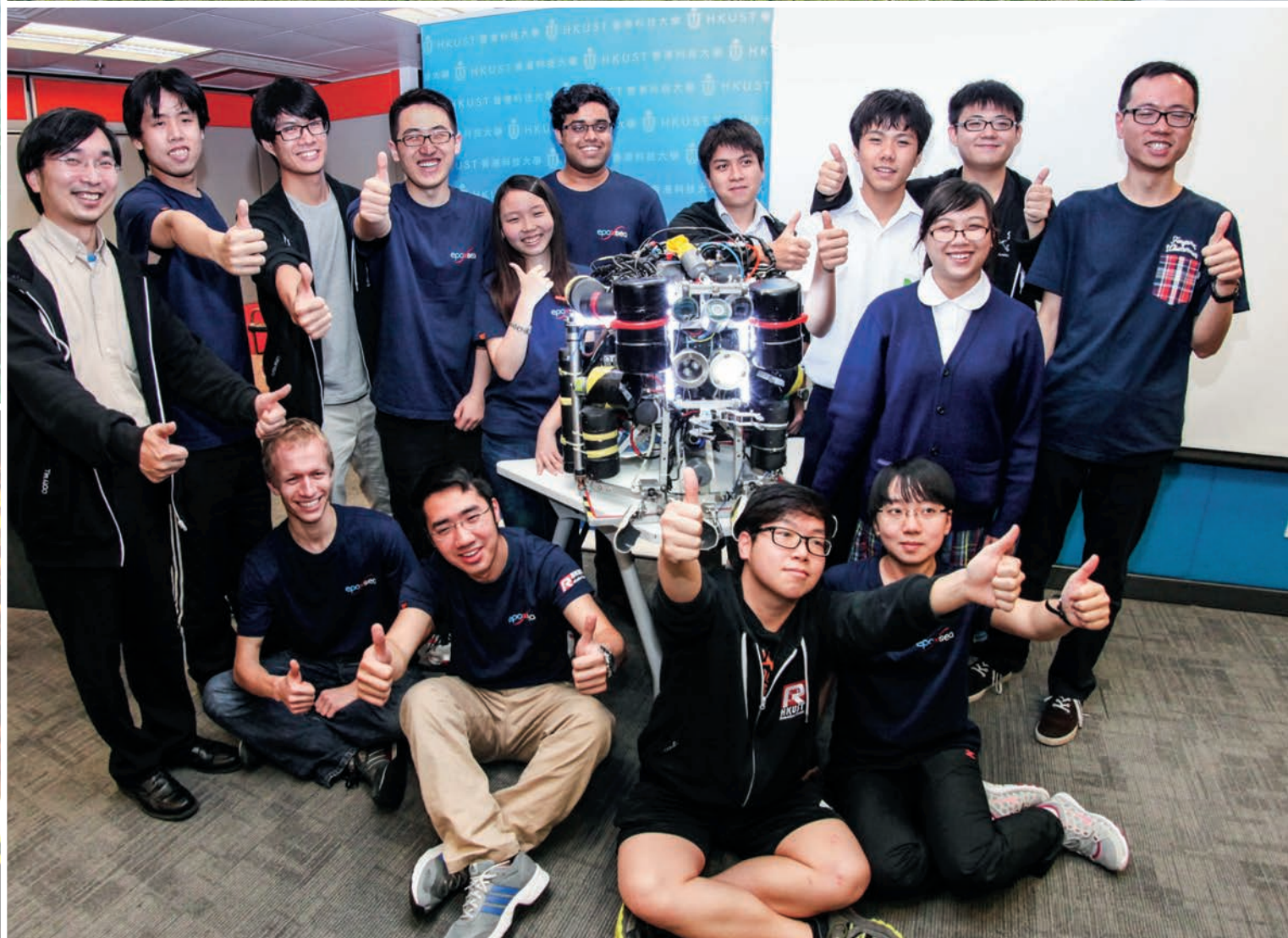












SCHOOL OF SCIENCE

This year, the School saw innovations in its education programs, secured major funding support for its breakthrough research endeavors, and strengthened academic exchange with global institutions, which enabled students to further extend their horizons with a global perspective



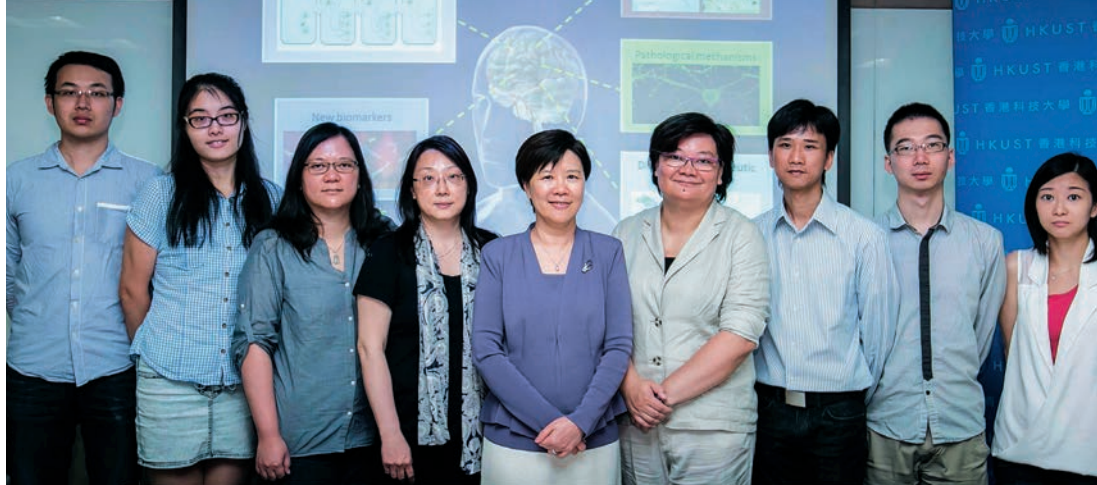
ADVANCING INNOVATIVE EDUCATION

In 2013-14, the School launched the first International Research Enrichment (IRE) program for outstanding undergraduates who aspire to a scientific research career. The study track exposes students to the latest research practices and interdisciplinary knowledge, providing a solid foundation for independent research in the future. To create summer research internship opportunities at overseas laboratories for IRE students, the School has sought to establish agreements with prominent institutions/laboratories, such as the University of Lausanne, the University of Cambridge, Columbia University, and the European Organization for Nuclear Research (CERN).

A taskforce was formed to spearhead the review of the School's first-year pre-major curriculum and to collect

student opinions. It subsequently drew up concrete plans to refine the curriculum to optimize students' learning opportunities. One of the major initiatives is the establishment of a "Center for Peer Instruction and Assessment in Science Education" which will provide an interactive platform for peer instruction and introduce blended learning elements to science foundation courses.

In line with the HKSAR government's designation of testing and certification as an economic pillar, the School began to plan a simulated accredited testing and certification laboratory to provide students with field practice in quality assurance and accrediting services in chemical, electrical and food safety, and prepare them for future careers in the field.



Leveraging the success of an existing minor program on actuarial science, the Department of Mathematics proposed an undergraduate stream in financial mathematics and actuarial science for high-calibre students. The new track will provide students with intensive training in quantitative analysis to prepare them for career opportunities in the financial sector.

HOLISTIC STUDENT DEVELOPMENT AND WIDENED RECRUITMENT

To sharpen students' competitive edge, the School commenced a Career Training and Internship Program, providing students with greater knowledge of the working world and individual consultation services. The School also organized the MenTernship Program, in which community achievers are invited to become mentors and share their experience with students.

Students were provided with ample opportunities to expand their experience through services to the wider community, which included the Cambodia Social Service Program, and research projects and field trips in Mainland China and other Asian countries under the University Student Sponsorship Program in Wildlife Conservation, organized together with the Ocean Park Conservation Foundation Hong Kong.

Increased recruitment efforts, through the summer research camp, research internship and dedicated trips to overseas institutions, have resulted in a more diverse postgraduate student body. International students came from a range of countries including the United Kingdom, Germany, Mexico, and India. The School also expanded its connection with prospective undergraduate students through a series of events, including JUPAS admission interviews cum discovering science at HKUST, district talks, on-campus visits, and alumni engagement programs for secondary school teachers.

GLOBAL RESEARCH AND COLLABORATIONS

The School's leading research initiatives secured major funding support. Faculty members in Physics and Life Science were awarded close to \$100 million in total under the University Grants Committee's Areas of Excellence Scheme for two projects. Three additional research projects led by Science faculty members gained support from the Research Grants Council's Collaborative Research Fund, receiving total funding of over \$23 million. The School's research breakthroughs continued to be published in high-impact leading journals, such as the *Journal of Computational Physics*, *Nature Communications*, *Proceedings of the National Academy of Sciences* and *Neuron*, and secured top national and international honors, including a State Natural Science Award.

Faculty members played a leading role in the HKUST IdeasLab session held at the Annual Meeting of the New Champions of the World Economic Forum in Dalian in September 2013. Senior academics, including Prof Nancy Ip, The Morningside Professor of Life Science and Dean of the School, held in-depth discussions on brain research and aging issues with other global experts at the session.

The School also collaborated with leading universities to organize joint symposia, yielding rewarding academic exchange. The First École Polytechnique Fédérale de Lausanne (EPFL)-HKUST Joint Symposium was held in March 2014 in Switzerland, with "Neuroscience Meets Cell and Molecular Biology" as the main theme. This was followed by the Biomedical Research Across the Continents symposium in April 2014, organized with the Schools of the Health Sciences at the University of Pittsburgh, the School of Life Sciences at Tsinghua University, the School of Biomedical Sciences at the Chinese University of Hong Kong, and the Faculty of Medicine at the University of Hong Kong, and held at Tsinghua University in Beijing.

SCHOOL OF ENGINEERING

The School extended its education experience, research opportunities and continued its strong international presence. The *Times Higher Education World University Rankings of Top 100 Universities for Engineering and Technology 2013-14* ranked HKUST first in Greater China and 21st globally

AT THE FOREFRONT OF ENGINEERING EDUCATION

The Hong Kong Institution of Engineers (HKIE) awarded provisional accreditation to the School's four-year undergraduate degree programs under the outcome-based education approach, making the School the first in Hong Kong to acquire this. It represented the long-held HKIE recognition of the School.

In support of the School's tri-modal education initiative – a career aspiration track based on students' preference for research, professional engineering, or entrepreneurship – the first project-based Engineering

Team Airship Design course was delivered to 56 undergraduates. A new Minor in Entrepreneurship, jointly offered with the School of Business and Management, was launched, with a Minor in Design planned and due to commence in 2014-15.

Further to the success of the undergraduate summer research program with Princeton University, a research program was piloted with Harvard University. The Department of Industrial Engineering and Logistics Management continued its collaboration with the China Academy of Art, offering a Design Thinking course to encourage cross-disciplinary creativity. Undergraduate exchange participation reached 38% in 2013-14, up from 21% in 2008-09.

A new MPhil Program in Technology Leadership and Entrepreneurship began accepting applications.





The postgraduate education experience also advanced with the launch of the Professional Development in Engineering course to enhance research students' professional skills, research ethics and entrepreneurship.

The School once again excelled in drawing top doctoral applicants from around the world through the Hong Kong PhD Fellowship Scheme. A record 42 engineering awardees will start studying at HKUST in Fall 2014. Proactive international recruitment during the year brought the overall international intake to 17% for research postgraduates and 11.6% for taught postgraduates in the new academic year.

In memory of the late Prof Wilson Tang, Head of Civil and Environmental Engineering (1996-2002) and a globally renowned researcher and educator, the Prof Wilson Tang Memorial Fund awarded a series of scholarships and awards to undergraduates and postgraduates for outstanding achievement and student exchanges.

DRIVING RESEARCH EXCELLENCE

The Department of Mechanical Engineering changed its name to the Department of Mechanical and Aerospace Engineering. Three projects related to aviation/aerospace undertaken in collaboration with the Aviation Industry Corporation of China received over \$15 million from Innovation and Technology Fund.

Strategic partnerships were developed with the California Institute of Technology, the University of Southern California and École Polytechnique Fédérale de Lausanne under the University's Sponsorship Scheme for Targeted Strategic Partnerships. Workshops on big data applications, computer and communication sciences, and 3D printing were subsequently organized.

In September 2013, the prestigious Partner State Key Laboratory on Advanced Displays and Optoelectronics Technologies, housed at the School and established in collaboration with Sun Yat-Sen University, was launched. In March 2014, the HKUST Energy Institute was opened. The School's academics will play a key role in areas such as solar cells, fuel cells, solid state lighting and thermal energy technologies.

FORGING TIES WITH INDUSTRY

The HKUST-Qualcomm Joint Innovation and Research Laboratory, focused on next-generation internet infrastructure, was launched. During the year, HKUST also signed an agreement with Deutsche Telekom (DT) to establish the HKUST-DT System and Media Lab for mobile system and media research.

The Center for Industry Engagement & Internship continued to foster connections between students and the world of business. At the Industrial Forum 2014 on campus, engineering students were introduced to the opportunities in hi-tech small and medium-sized firms in Hong Kong. Off-campus, the School's student, faculty and alumni innovations were showcased at the HKIE Hi-Tech Fiesta.

A total of 23 projects were chosen for the inaugural year of the Ford-HKUST Conservation and Environmental Research Grants Program for Master of Science engineering students, with research funding totaling \$1 million. Postgraduate student visits to major companies such as the MTR Corporation, Cathay Pacific, and Tencent were also arranged.

SERVING THE COMMUNITY

The Center for Global & Community Engagement strengthened the School's presence in a range of activities with NGOs, tertiary institutions, professional institutes and the government. GCE also encourages students to participate in numerous international competitions, enrichment activities, in addition to establishing connections with professional institutions. Center for Engineering Education Innovation further fosters community spirit and leadership, a designated space devoted to leadership and service leadership has been created in the School's Engineering Commons. The Professional Leader's Focus area uses customized slide shows, videos and other resources to promote concepts of service leadership. The "Leadership in Engineers" e-newsletter was also launched in May 2014.

SCHOOL OF BUSINESS AND MANAGEMENT

The School appointed a new Dean, widened its education provision, and continued to command the heights in international business program rankings and accreditation



In 2013-14, the School moved into its purpose-built home in the Lee Shau Kee Business Building. After a global search, the School also announced Prof Jitendra V Singh had been appointed its new Dean, with effect from September 2014. Prof Singh, a world-class management scholar and business educator, joined the University from Wharton School, University of Pennsylvania. He has wide-ranging experience and achievements in academic, business strategy and policy arenas and extensive academic and corporate links.

BROADER PROGRAM PORTFOLIO

The initial cohort of the three-continent, three-degree World Bachelor in Business, run together with the University of Southern California and Bocconi University, completed its first year in the United States. Students will arrive at HKUST in Fall 2014.

The move to expand the MSc program portfolio continued with enrollment for two new full-time MSc programs in Investment Management and Accounting, which will commence in Fall 2014. The School also signed a new partnership agreement with Saudi Aramco to provide a part-time MBA program for two further cohorts, following the successful launch of the pilot program last year.

INTERNATIONAL RECOGNITION

In January 2014, the School completed its maintenance accreditation review in business and accounting by the Association to Advance Collegiate Schools of Business

(AACSB International), the premier accrediting agency for business degree programs. The School first earned this international recognition in 1999. Less than 5% of business programs around the world have been accredited today.

The School's education programs continued to be highly rated in international surveys. The HKUST MBA program was ranked No.1 in Asia by the *Financial Times* Global MBA Rankings 2014 for the fifth consecutive year while the Kellogg-HKUST Executive MBA (EMBA) program was ranked No.1 in the world by the *Financial Times* Global EMBA Rankings 2013, also for the fifth straight year.

In research, the School has been ranked top in Asia Pacific between 2010 and 2014 by the University of Texas at Dallas Top 100 World Ranking of Business Schools, based on research contribution. A donation from the Tongyi Industrial Group will see the School further advance its research, boosting the development of the Center for Electronic Commerce and studies on business conducted over electronic platforms.

Undergraduate and postgraduate students enjoyed on-going success in numerous international business contests, including the Scotiabank International Case Competition in Canada, Columbia's Global MBA Competition in the United States, and Corporate Social Responsibility Case Competition in Hong Kong.

GROOMING RESPONSIBLE LEADERS

With corporate social responsibility an integral part of business education today, the School put more emphasis on business ethics and service learning in its formal curriculum, enrichment activities and research. Undergraduate courses incorporated more on business ethics, social responsibility and sustainable development. At the postgraduate level, these elements have been integrated into courses and curricula according to the focus of different programs. In addition, faculty members have stepped up efforts to develop research, teaching materials and case



studies on corporate social responsibility and corporate governance, with a focus on Asian markets.

An innovative credit-bearing elective was launched on Social Entrepreneurship and Venture Philanthropy, with the support of Yeh Family Philanthropy. The course, open to undergraduates and postgraduates across the School, gives students a real-life platform to learning how to contribute their ideas and skills to sustainable social businesses and make socially responsible investment.

HOMECOMING CELEBRATION

In December 2013, the School organized its first homecoming day for alumni, faculty, staff and students in the Lee Shau Kee Business Building. The 300 guests, including the School's Founding Dean and alumni from the first graduating class, reconnected with their peers and toured the teaching facilities. To stay connected with the expanding alumni network, the School continued to hold annual reunion activities in Hong Kong, Beijing, Shanghai, Shenzhen and Singapore and introduced more social media networking channels to engage the diverse School community.



SCHOOL OF HUMANITIES AND SOCIAL SCIENCE

The School added to its global presence with the first graduates from its Global China Studies program, continued advances in Massive Open Online Courses, and developed students' interests in arts and culture

It has been a banner year for the School, with the elite Global China Studies program celebrating its first BSc and MSc graduates. Over 95% of the bachelor graduates were able to undertake Mainland or international internships/learning experiences. Among the 32 MSc graduates, 18 were 3+1 undergraduate/postgraduate students from Nanjing University, Shandong University, Sun Yat-sen University, and Xi'an Jiaotong University. For the first time, the program saw two Year 2 students gain internships at the United States Congress in Washington DC.

BLENDED LEARNING

In a pioneering move, Massive Open Online Course (MOOC) videos were introduced in several of the School's undergraduate and postgraduate classes, enabling a blended teaching format to be used. Students watched lectures by their instructor before

their scheduled class, allowing more time for student presentations and discussion in class. Senior faculty have continued to develop such courses, including the second part for both "A New History for a New China, 1700-2000", taught by Prof James Lee, Dean of the School, and "Science, Technology, and Science in China" taught by Prof Naubahar Sharif (Social Science).

Plans advanced for the launch of the School's full-time Program of MA in International Language Education, with the enrollment of students for its two concentrations, Teaching English as a Second Language and Teaching Chinese as a Second Language. The program will commence in 2014-15.

WORLD VISION

Further Jefferson Global Seminars were held in summer 2014, continuing the spirit of a global-scale living-learning



academic community for advanced undergraduates and beginning postgraduate students. The collaborative program was organized by the School together with the University of Virginia and university exchange partners in the Mainland and Taiwan, with seminars embracing a diversity of disciplines and thematic emphases. More than 70 students enrolled overall.

An interdisciplinary conference on Wealth Accumulation and Inequality of Opportunities was co-organized with the HKUST Institute for Emerging Market Studies, French Centre for Research on Contemporary China, and the Groupe d'Analyse et de Théorie Economique (GATE Lyon Saint-Etienne). The event looked at comparative and historical perspectives to investigate the dynamics of inequality in China, with keynotes from Prof Thomas Piketty, Prof François Bourguignon, Prof Jérôme Bourdieu (all Paris School of Economics), and Prof Philip T Hoffman (California Institute of Technology).

A workshop with the University of California, Los Angeles, on Rewriting the Past: Historical Big Data and a Scholarship of Discovery brought together major researchers from Mainland China, Japan, Korea, Taiwan, and the United States.

Prof Wenkai He (Social Science) won the Barrington Moore Book Award for his work, *Paths Toward the Modern Fiscal State, England, Japan, and China* (Harvard University Press). He is the first scholar from a non-American university to have won this prestigious award.

CREATIVE INSPIRATION

In Fall 2013, the Division of Humanities launched the Chinese Creative Writing Program, directed by world-renowned literary critic, writer, and IAS Senior Visiting Fellow Zaifu Liu. In October and November 2013, leading Chinese authors Lianke Yan and Hua Yu visited the University as HKUST writers-in-residence. An international forum entitled "What Can a Writer Do While Facing the Absurd Reality?" was held. The conference was attended by Leo Ou-fan Lee, Pingyuan Chen, Ziping Huang, and Carlos Rojas, among others.

The fourth season of The Intimacy of Creativity (IC) saw a record 199 submissions from over 40 countries following its call for scores. The internationally acclaimed workshop combining a dialogue between emerging composers and established musicians, public performance, and the process of composition, was led by Founder and Artistic Director Prof Bright Sheng, YK Pao Distinguished Visiting Professor of Cultural Studies and IAS Visiting Fellow. One work by an IC Composer Fellow was also selected by audience vote to be featured at the Banff Arts Centre in Canada. The Intimacy of Creativity formed part of the HKUST Music Alive! 2013-14 season of musical performances, with a total of 5,480 HKUST students and staff attending these events.



INTERDISCIPLINARY PROGRAMS OFFICE

Working with all Schools as well as undertaking its own research and elite education programs, the Interdisciplinary Programs Office (IPO) cultivates a non-traditional collaborative environment for HKUST faculty and students to explore their potential

EDUCATION WITH IMPACT

2013-14 marked a special year for the Dual Degree Program in Technology and Management, which celebrated its 10th anniversary with an event attended by over 160 students, alumni, faculty and staff. In addition, the Environmental Management and Technology program was successfully accredited by the Royal Institution of Chartered Surveyors.

The new undergraduate-centered Student Innovation for Global Health Technology helped to widen students' outlook as well as benefit society. Students visiting Cambodia went to slum areas and mobile clinics operated by a partner NGO, leading

to recommendations for solutions centered on simple technology.

Twelve Dual Degree students joined the Global Social Venture Competition in Japan, participating in multidisciplinary teams with other overseas university students to tackle urban challenges, such as high youth unemployment.

WORKING CREATIVELY WITH COMMUNITY AND INDUSTRY

Locally, the Environmental Management and Technology Program designed capstone projects that encourage





students to interact with the community and analyze social problems. Examples included a stakeholder analysis on the Baroque on Lamma development project, providing recommendations on environmental sustainability to the developer, and a project on the revitalization of a fresh food market in Sha Tin, involving student-organized focus group meetings with Sha Tin residents and submission of a proposal to The Link REIT for follow-up investigation. Students also looked into food waste problems of supermarkets.

In projects with companies, Risk Management and Business Intelligence Program students developed prototypes for financial risk management systems, audit risk identification systems, and social media market analysis systems. Dual Degree Program in Technology and Management students designed innovative promotional strategies for portable speakers in a project sponsored by HARMAN.

HARNESSING THE POWER OF MULTIDISCIPLINARY RESEARCH

The Air Quality Research Supersite facility completed its real-time measurements and physical and chemical characterization of particulate matters (PM) and volatile organic compounds (VOC) at HKUST and at Mong Kok Environmental Protection Department station. The team subsequently used the data for advanced air quality modeling and source apportionments. The Supersite team also helped develop the Air Quality Health Index, in collaboration with The Chinese University of Hong Kong. The index replaced the Air Pollution Index at the end of 2013.

Cross-institutional collaborations included a project for cardiac cell sensing and drug screening with electrochemical transistor array, led by Division of Biomedical Engineering faculty and colleagues from the University of Hong Kong.



CROSS-CULTURAL LEARNING

For the eighth year, the Dual Degree Program and the University of Illinois at Urbana-Champaign co-organized the Technology and Management International Business Plan Competition in Germany. The two-week study trip brought together students from the organizing universities along with students from the University of Bayreuth and the University of São Paulo. The students competed in a challenging case study on “Emerging Technology of Sustainable Vehicles for the Local Economy and Ecosystem”.

The Division of Environment co-organized the Global Citizenship Program with Taipei University, Xi’an Jiaotong University and Yulin College in summer 2014 after a pilot run in 2013. Over 65 students from the partner institutions traveled to Hong Kong, Taipei, Xi’an and Yulin to attend lectures and site visits, and work in teams to develop a sustainable development plan for the city of Xi’an.

As a coherent unit, IPO will continue to promote a vibrant, collaborative and interdisciplinary culture and strive to serve the community, both locally and globally, to achieve “Excellence for Public”.

HKUST FOK YING TUNG GRADUATE SCHOOL

A fresh focus on technology transfer, the launch of joint laboratories with enterprises and education institutions, and knowledge exchange were among the developments at the Nansha campus



HKUST Fok Ying Tung Graduate School, situated in Nansha, Guangzhou, continued to focus on research and development, technology and innovation, in four main divisions: Internet of Things; Advanced Manufacturing and Industry Automation; Advanced Materials; and Green Buildings and Environment. Fifty-three new projects were secured over the year, bringing the total number to 276. The School has registered 32 patents in total since being established.

TECHNOLOGY TRANSFER PLATFORM

With the University's strategic repositioning of its Mainland China platforms over the year, the School will now spearhead HKUST's technology transfer and commercialization endeavors in the Mainland, and coordinate the University's innovation and technology advancement efforts among the Mainland platforms, including Shenzhen Research

HKUST FOK YING TUNG GRADUATE SCHOOL 香港科技大学霍英东研究院



Institute, Foshan LED-FPD Technology R&D Center, Zhejiang Advance Manufacturing Institute and Guangzhou HKUST Fok Ying Tung Research Institute. In March 2014, the University signed a framework agreement to establish a Guangdong-Hong Kong innovation and technology transfer platform with the Guangzhou government. The milestone move will greatly strengthen the School's role in fostering commercialization and technology innovation between Hong Kong and Nansha, as well as other cities in the Pearl River Delta.

A series of joint laboratories and applied engineering centers have been set up by the School's four divisions with renowned overseas universities and major local companies. Partners include China Telecom Beijing Research Institute, the University of Bayreuth (Germany), Nanyang Technological University (Singapore), and the University of Waterloo (Canada) and Midea Electric Appliances. These collaborations not only boost the research capability of the divisions, but also inspire more joint activities, making the School a valuable platform for HKUST faculty and students to collaborate

with Mainland industry and explore further research opportunities. Around 90 faculty members from HKUST's Clear Water Bay campus now have active roles as leaders or participants in research projects at Fok Ying Tung Graduate School.

Prof Furong Gao, the School's Associate Dean and Director of the Center of Polymer Processing and Systems, and his research team at the School successfully applied to be a Guangdong Province Innovative R&D Team, a notable provincial-level scheme for talented researchers focusing on high-end technologies.

KNOWLEDGE EXCHANGE AND EMERGING OPPORTUNITIES

The School engaged in knowledge exchange through offering professional training to local government officials and entrepreneurs to encourage an innovative and global mindset. More training programs are planned.

With the new campus building due to be in place by the end of 2014, the School will also be well positioned to capture further opportunities that are emerging in Nansha, which has seen rapid socio-economic development since its designation as a National Special Zone in 2012.





HKUST JOCKEY CLUB INSTITUTE FOR ADVANCED STUDY

The Institute strengthened its role as Asia's intellectual powerhouse, bringing together some of the world's leading minds at HKUST

IAS seeks to be the premier intellectual hub in Hong Kong, Asia and beyond, drawing the most brilliant scholars together to propel research breakthroughs and cutting-edge discovery and to lead the way to an educated, vibrant and humane society. In November 2013, a naming ceremony for the HKUST Jockey Club Institute for Advanced Study (IAS) was held in recognition of the significant support from The Hong Kong Jockey Club Charities Trust in the

Institute's development. A naming ceremony was also held for the Institute's Lo Ka Chung Building in December 2013.

INTELLECTUAL HUB

The November naming ceremony was held concurrently with the inauguration of the first three



IAS Named Professors: IAS Helmut & Anna Pao Sohmen Professor-at-Large Prof Sir Christopher A Pissarides, who was awarded the Nobel Prize in Economic Sciences in 2010; IAS Bank of East Asia Professor Prof Ching W Tang, recipient of the 2011 Wolf Prize in Chemistry; and IAS Si Yuan Professor Prof Gunther Uhlmann, winner of the 2011 Bocher Memorial Prize and the Kleinman Prize. The three eminent academics delivered advanced seminars for postgraduate students, industry talks targeting professionals in their respective fields, and public lectures for general audiences, inspiring many walks of life.

To create a conducive interdisciplinary environment for research, 19 prominent HKUST professors were engaged as IAS Senior Fellows to collaborate on research projects and host various activities for the Institute. In addition, internationally renowned scholars from around the world paid regular visits to IAS as Visiting Professors and Visiting Fellows. Many are members of national academies or equivalent stature. In the year under review, 21 Visiting Professors, three Senior Visiting Fellows and two Visiting Fellows visited the Institute. They conducted joint research with HKUST faculty, shared the latest progress in their fields through a variety of activities, and provided guidance and mentorship to HKUST students and postdoctoral scholars.

ACTIVE ENDEAVORS

In 2013-14, IAS organized some 209 academic events, including 49 distinguished lectures, 12 topical research programs and two UC RUSAL President's

Forums, attracting over 7,000 participants. The hosting of Gordon Research Conferences was another major feature. Four of these renowned global science meetings were held at the Institute in July and August 2013, three of which were chaired by HKUST faculty. Conference themes spanned fields in life science, mechanical engineering and physics.

IAS also organized topical research programs to promote the creation and development of clusters of research activities and new initiatives at HKUST. The first of their kind in Hong Kong, these programs usually comprise short courses, workshops, and ample discussion sessions. Programs ranged from a week to several months and covered specialized topics such as statistical physics and computational neuroscience, Gromov-Witten theory and quantization, creative Chinese writing, special cycles and p-adic L-functions, computational and experimental immunology, and new perspectives on cosmology.



FACULTY DEVELOPMENT

Faculty recruitment continued to support new areas of scholarship while professional development evolved further, teaching and research achievements were recognized

LEADING THE WAY TO EXCELLENCE

In September 2013, President Tony F Chan was reappointed to the leadership of the University for a second five-year term. He will serve as President until 2019. President Chan has steered HKUST ahead in the key areas of development set out in the Strategic Plan 2011-16, and successfully overseen a smooth transition to the four-year degree system. During the year, President Chan was elected to the National Academy of Engineering in the United States, among the highest professional recognitions in the field.

In May 2014, Prof Jitendra V Singh was announced as the new Dean of Business and Management, effective September 2014. Prof Singh, a world-class management scholar and business educator, joins HKUST from the Wharton School, University of Pennsylvania, where he was Saul P Steinberg Professor of Management. Prof Jingshen Wu (Mechanical and Aerospace Engineering) was appointed the Founding Dean of Xi'an Jiaotong University-HKUST Joint School of Sustainable Development.





In an initiative to reinforce the University's third "pillar" of innovation, alongside education and research, Prof Patrick Yue (Electronic and Computer Engineering) was appointed to the new post of Associate Provost for Knowledge Transfer. The post will seek to bring wider diversity to the University's innovation portfolio, including the development of original business models as well as novel products and scientific discovery.

Other appointments to senior staff positions were:

Prof Sudipto Dasgupta
Head of Department of Finance

Prof Jimmy Fung
Head of Division of Environment

Prof Siu Fai Leung
Head of Department of Economics

Prof Kellee Tsai
Head of Division of Social Science

In recognition of their contributions to HKUST and their fields, the following faculty members were bestowed the title of Professor Emeritus on their retirement or departure from University service:

Prof K C Chan
Finance

Prof Leonard K Cheng
Economics

Prof Shiu Yuen Cheng
Mathematics

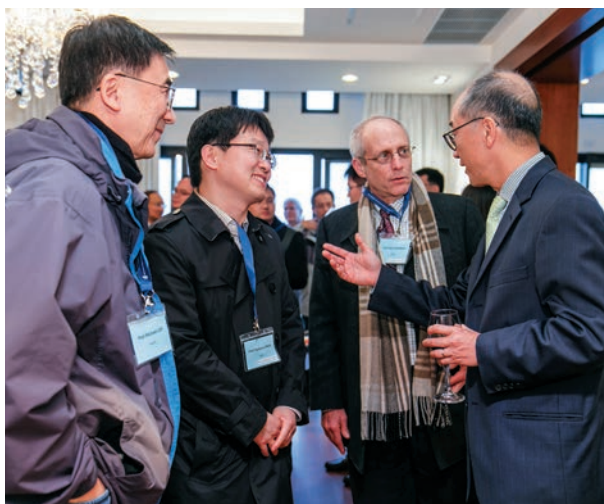
Prof Yang Leng
Mechanical and Aerospace Engineering

Prof Frederick Horst Lochovsky
Computer Science and Engineering

Prof H Benjamin Peng
Division of Life Science

Prof Mitchell M Tseng
*Industrial Engineering and
Logistics Management*

Prof Yuk Shan Wong
Division of Life Science





ENHANCING TEACHING PERFORMANCE

Broader criteria for faculty performance have been introduced in recognition of the different roles in education, research and knowledge transfer that academics need to play in a leading research university.

To boost faculty members' understanding of the world of patents and intellectual property (IP) and encourage knowledge generation and transfer, two campus-wide seminars were organized during the year to equip faculty, students and staff with more IP management knowledge and skills. In total, over 200 participants attended the seminars.

At the Center for Enhanced Learning and Teaching, which partners departments, faculty and other teaching staff in advancing professional development and active learning pedagogies, a series of seminars by Center staff and outside speakers continued to inform faculty on the latest developments.

The Center for Engineering Education Innovation (E²I) established a talk series to provide an informal forum for engineering faculty to exchange views on topics related to engineering learning and teaching. In addition, representatives from E²I attended the global NACADA Academic Advising Summer Institute 2014 in the United States.

As one of Asia's first universities to launch MOOCs, HKUST saw the potential of this new teaching method and explores strategy, effectiveness and quality of programs, with its multimedia team and designated studios producing online course materials.

ACADEMIC ACCOLADES

In 2013-14, faculty members continued to be recognized for their research endeavors and impact on academia and society by some of the highest national and international honors.

Nationally, Prof Jianshu Li (Mathematics) was elected to the Chinese Academy of Sciences, for his world-class studies on Lie Group Representations and Automorphic Forms. He is the first Hong Kong-based scholar to join the Academy's Division of Mathematics and Physics and HKUST's sixth Academy member.

Two of the University's faculty and their research teams received 2013 State Natural Science Award (Second Class) for their pioneering work. Prof Tianshou Zhao (Mechanical and Aerospace Engineering) was awarded for his breakthroughs on Direct Alcohol Fuel Cells (DAFC). This was the second year in a row that Prof Zhao received this award, one of the most prestigious

honors in science and technology in China. Prof Shihe Yang (Chemistry) was recognized for work related to nanomaterials.

Two academics also gained honors at the highest national level in the 2013 Higher Education Outstanding Scientific Research Output Awards (Science and Technology), presented by the Ministry of Education. Prof Charles Ng (Civil and Environmental Engineering) received a First Class award in Scientific and Technological Progress, and post-doctoral fellow Dr Tian Fang (Computer Science and Engineering) received a Second Class award in Natural Science.

Prof Ching W Tang, IAS Bank of East Asia Professor and a world-leading physical chemist, known as the “Father of OLED”, was awarded the 2013 Eduard Rhein Foundation’s Technology Award and the Optical Society’s Nick Holonyak Jr Award in 2014.

Stephen Kam Chuen Cheong Professor of Science Prof Benzong Tang (Chemistry) was hailed for his work when he received the Khwarizmi International Award (Second Class) from the Iranian Organization for Science and Technology. He was the only Chinese scholar among the five overseas awardees.

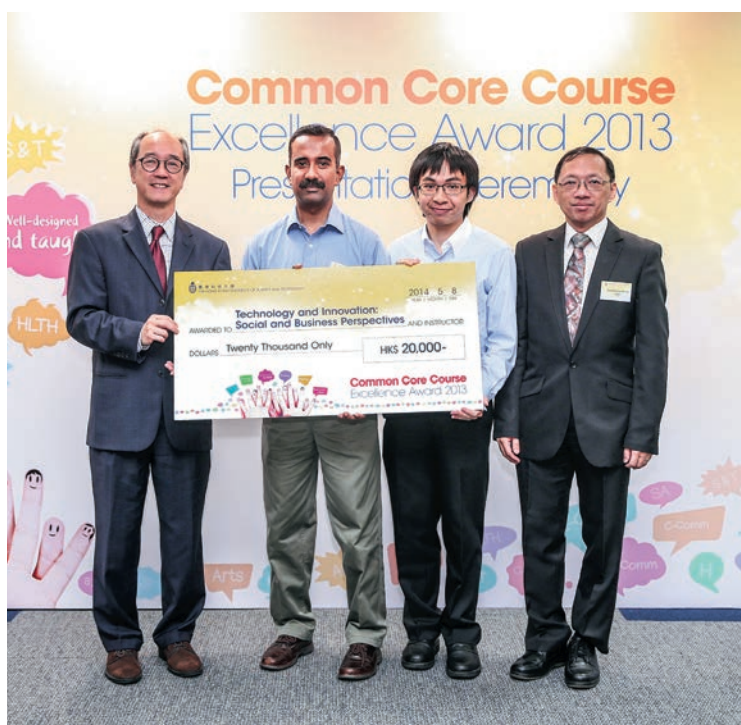
HKUST RECOGNITION

To foster excellence and show the University’s appreciation of the outstanding work of its faculty, a number of HKUST honors were awarded over the year.

Prof Jimmy Fung (Mathematics and Division of Environment) received the Michael G Gale Medal for Distinguished Teaching for his dedication as an educator over the years. In further acknowledgement of the University’s inspiring approach to education, the Common Core Course Excellence Award was won by a team from the Department of Information Systems, Business Statistics and Operations Management for their “Technology and Innovation: Social and Business Perspectives” course. Individual Schools also recognized their academics’ research and teaching achievements.

NAMED PROFESSORSHIPS

Three new Named Professorships, namely Elman Family Professorship in Business, Michael Jebesen Professorship in Business, and Sin Wai Kin Professorship in Chinese Culture, were established through generous community donations to enable the University to recognize eminence in the areas of business and Chinese culture and to recruit and retain world-leading academics. Such academics take the University forward in achievement, profile and ability in today’s highly competitive environment of global tertiary education as well as attract young high-achieving students and faculty. HKUST now has a total of 28 Named Professorships covering the University’s major academic focuses.



COMMUNITY ENGAGEMENT

Relationships within the community strengthened, with the sharing of knowledge by faculty and students, generous contributions to the University, and the growing presence of HKUST alumni around the world

The University has deepened its interaction with the community, bringing the expertise of its faculty to a range of different activities to promote science and technology and to foster social and economic development, including discussions on key issues, applied innovation, and leadership development. Students and alumni have also raised awareness of the importance of a contributing spirit.

BUILDING INSIGHT AND LEADERSHIP

The establishment of the HKUST Leadership and Public Policy Executive Education Office introduced programs and activities for public policy decision-makers, academics and practitioners to explore current issues and develop solutions. In January 2014, the Launch Forum for the Office's Leadership and Public Policy





series with Oxford University focused on “Visions of the City”. The event attracted high-profile speakers from business, government and academia, with an address by Hong Kong’s Chief Executive Mr CY Leung. The first program in the joint series was held later that month.

The HKUST Institute of Emerging Market Studies also co-organized a number of high-profile meetings. These included a forum on China’s urbanization strategy and a major conference with the World Bank on the challenges of population aging in Asia, drawing researchers from around the region, government officials and business strategists.

GENERATING INSIGHT INTO SCIENCE AND TECHNOLOGY

To increase interaction with the younger generation, students from the School of Science joined the British Council’s Science Alive 2014 to conduct workshops and activities demonstrating different scientific areas. In addition, *Science Focus*, the magazine designed and written by HKUST students, was founded in 2014 to arouse the interest of Hong Kong secondary school students in science and scientific research. The first issue was published in February and received very positive feedback from the schools.

In the School of Engineering, the Center for Global & Community Engagement successfully built a cooperative platform for students and faculty, community organizations and corporate partners to exchange ideas and share experience on how engineering can help in community. The Center linked up with numerous organizations, including the Ebenezer School, Raleigh

Hong Kong, The Hong Kong Society for the Deaf, Habitat for Humanity Hong Kong, Engineers without Borders (Hong Kong) and the Hong Kong Institution of Engineers. Robotics in the community for visually-impaired children, a speech recognition training kit app for hearing-impaired children, the Android Application Design Contest and Toy Design Competition, were among the activities contributing to interaction between the School and community.

SHARING EXPERTISE ON BUSINESS AND SOCIAL DEVELOPMENT

The School of Business and Management invited local and international business leaders to share their experiences with students, and also evolved its own endeavors to take its work into the community. Activities included the popular Business Insights faculty seminars, where academics discussed their latest research. In 2013-14, invitations were extended to external speakers, such as Hong Kong Monetary Authority representatives, to present additional views.

Twenty-five seminars were organized by the Division of Social Science to discuss issues of the day while the Division of Humanities continued its long-running series of lectures co-organized with the Hong Kong Museum of History, holding 23 talks during the year.

Community talks were organized – two in collaborations with JP Morgan and Jaderin Club, and two hosted by IAS Helmut & Anna Pao Sohmen Professor-at-Large Sir Christopher A Pissarides and IAS Bank of East Asia Professor Prof Ching W Tang.



Three new Named Professorships were established, namely, Elman Family Professorship in Business, donated by Mr Richard Samuel Elman, Michael Jebsen Professorship in Business, given by Jebsen Educational Foundation, and Sin Wai Kin Professorship in Chinese Culture, donated by Sin Wai Kin Foundation Ltd.

Further donations supported the University's frontier research in a range of areas: The Ark Power System Development Co Limited for fuel cells; Daijiang Innovations Technology Co Ltd – a spin-off company of HKUST alumnus Mr Frank Wang and faculty member Prof Zexiang Li – for electronics and computer engineering; and an anonymous donor for business data analysis.

Several contributions were also received for education and student development. The Bai Xian Education Foundation Limited and Bai Xian Asia Institute Limited established the Asian Future Leaders Scholarship Program to promote cross-cultural understanding amongst young Asians. HKUST was one of the six anchor universities. HK JEBN Limited, a company founded by HKUST alumnus Mr Kent Hau, pledged an annual scholarship for PhD students who are researching health and quality living. The estate of the late Prof Edmond Ko, who headed the School of Engineering's Center for Engineering Education Innovation, set up a scholarship on peer mentoring, while a donation from Mrs Choi Ma Oi Kuen supported a public service leadership program.

FOSTERING UNDERSTANDING

The "Science-for-Lunch" talk series, one of the signature programs initiated by the University Council's Institutional Advancement and Outreach Committee, was organized for the third year, with sponsorship from Chevalier Group and Café Deco Group. Eight HKUST professors spoke to business and community leaders about their research discoveries and innovations related to social media, Alzheimer's disease, biofuel cells and 5G wireless technologies, among others.

The Committee also initiated the HKUST Leadership Talk series, whereby senior University management share their vision and plans with University Council and Court members. Prof James Lee, Dean of Humanities and Social Science, and Prof Khaled Ben Letaief, Dean of Engineering, gave presentations in March and June 2014 respectively, with further talks planned.

DONATIONS TO BUILD THE FUTURE

The University received a major gift of \$20 million from the Li Ka Shing Foundation to nurture students' global vision through international research, entrepreneurship, community engagement, and other development activities.





ALUMNI IN ACTION

The University was also encouraged by support for the Alumni Endowment Fund (AEF). In 2013-14, a great number of our graduates contributed to the Fund, including donations from alumni Mr Samson Yu and brothers Mr Terry and Terence Tsang. This giving spirit brought the fund (including government matching grants) to \$15 million in total. Investment return of over \$500,000 was put toward different enrichment initiatives to benefit a broad range of students.

The HKUST Convocation continued to strengthen bonds between the University's key stakeholders through the Academic Affairs Committee, Student Affairs Committee and University Development Committee. The launch of regular lunch gatherings with both local and non-local students has added to effective communication.

The HKUST Alumni Association (also known as A1) put its vision of "Alumni Inspire Alumni" into action, engaging alumni of diverse backgrounds through its three-pillar platform of alumni engagement, community service and entrepreneurship. A wide variety of programs was organized and received great support. The past year also witnessed significant growth in membership. Two more alumni groups were established: the Environmental Management and Technology Alumni Association; and Risk Management and Business Intelligence Alumni Association. In addition, alumni chapters were set up in Shanghai, Guangzhou, and Atlanta in the United States.

Memorable homecoming reunions for the Class of 2003 and Class of 1994 were held in celebration of their 10th and 20th graduation anniversaries respectively. Further reunions took place in the United States, South America, Europe, Asia and Mainland China, with President Chan and Vice-President for Institutional Advancement Dr Eden Y Woon participating in many of them.

During the year, numerous alumni received awards in recognition of their contributions and achievements. They included: Mr Terry Tsang, BEng (CIVL) and MPhil (CIVL) who was named Emerging Entrepreneur of Ernst & Young Entrepreneur of the Year 2013 China; Ms Suzanne So, MBA, and Mr Leo Lau, MBA/MSc (IM), whose company, Joy Sprouts, won a 2013 TiE50 "Top Startup" award from TiE Silicon Valley; and Mr Francis Kwok, BSc (PHYS), and Ms Irene Cheung, BBA (MARK), whose company, Radica, won the Gold Award and Local Hero Award in the Direct Marketing Agency category of *Marketing Magazine's* Agency of the Year Awards 2014.



INTERNATIONAL AND MAINLAND STRATEGY

The University has further integrated its Mainland platforms and built up links with national enterprises while raising its global presence by forging partnerships and participation in premier international forums

MAINLAND PRESENCE

Strengthening Strategic Focus

The University's Mainland China platforms in Guangzhou, Foshan, Xi'an, Shenzhen and Hangzhou were effectively streamlined over the year to enable greater synergy and to facilitate faculty members' contributions. Fok Ying Tung Research Institute in Guangzhou is now positioned as a headquarters for knowledge transfer for the University. HKUST-LED-FPD Technology R&D Center at Foshan will focus on its unique strength in light-emitting diode research

and development. The Joint School of Sustainable Development (JSSD) in Xi'an will build sustainability. Shenzhen PKU-HKUST Medical Center will emphasize on basic biomedical research, teaching and training, and the HKUST Zhejiang Advanced Manufacturing Institute in Hangzhou will address advanced design and manufacturing needs.





The JSSD, jointly developed with Xi'an Jiaotong University, moved ahead in several areas. The School, which will enable HKUST to contribute to education and research in the key area of sustainability, obtained formal approval from the Ministry of Education in April 2014 and plans to launch its undergraduate program in 2015-16. Following a global search, and approval by the JSSD Steering Committee, Prof Jingshen Wu was appointed Founding Dean.

HKUST formed a Strategic Partnership with Shanghai Jiaotong University in December 2013 to boost faculty exchange and research on aerospace engineering, mathematics, and smart cities. In addition, eight Memoranda of Understanding were signed during the year.

Deeper Engagement

The University got plans underway to organize the 14th National Challenge Cup Contest in 2015 with the Guangdong University of Technology. The science and innovation competition has gained iconic status, involving thousands of university students from hundreds of institutions in China. HKUST will be the first Hong Kong institution to co-host the biennial national event.

More than 400 faculty, postgraduates and undergraduates participated in academic workshops, research projects and cultural tours to Mainland China

through a collaborative scheme administered by the Ministry of Education. In addition, the University received 100 delegations from Mainland China in 2013-14, comprising more than 1,300 delegates from industry, government and academics.

Connecting with Business

HKUST continued to extend its interaction with Mainland enterprises. A cooperation agreement with China Merchants Group in June 2013 created undergraduate internships and job openings, among other opportunities. University management and faculty also explored collaborations with major companies, including Alibaba, Aviation Industry Corporation of China, and Digital China. Professional executive training courses were provided to organizations including Huawei, Lenovo, Tencent, and TCL Corporation.

HKUST signed a strategic partnership agreement with Lenovo in August 2013 and a series of research collaborations were launched. Mr Chuanzhi Liu, Chairman of Legend Holdings and Founder and Honorary Chairman of the Lenovo Group, shared his views on China's manufacturing growth at the UC RUSAL President's Forum at HKUST in March 2014. Alibaba Group's Chief Technology Officer Dr Jian Wang, and Chief Financial Officer Ms Maggie Wu gave talks on Alibaba's cloud based technology, the development of the Alibaba e-commerce ecosystem in November 2013, March and April 2014, respectively.





In September 2013, President Chan attended the prestigious annual Boao Forum for Asia, participating in a panel discussion on education and employment. Vice-President for Institutional Advancement Dr Eden Y Woon strengthened links with leading Mainland companies at the invitation-only Yabuli China Entrepreneurs Forum in February 2014.

EXTENDING INTERNATIONALIZATION

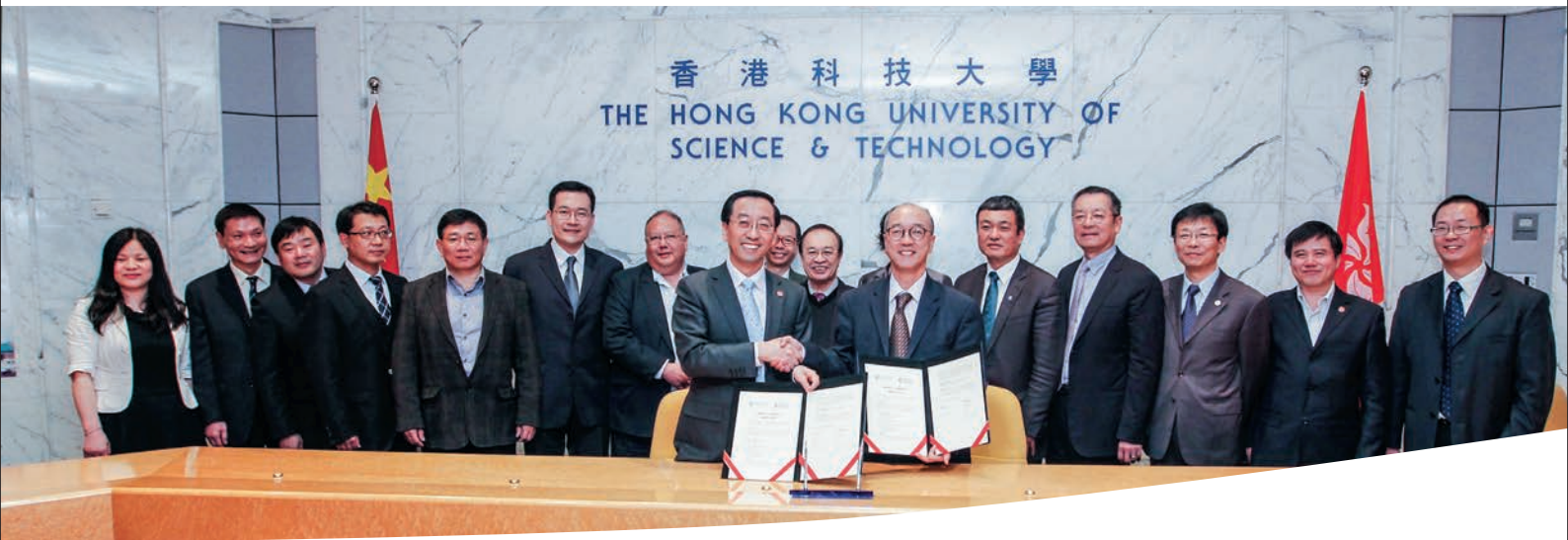
With global outreach as one of the six key developmental areas of HKUST's Strategic Plan, the University's internationalization endeavors target thought leadership, strategic partnerships, academic and research collaborations, and international exchange, among others. During the year, the University has continued to step up expansion of its global network.



Thought Leadership

In September 2013, the University held its second specifically named HKUST IdeasLab session at the Annual Meeting of New Champions of the World Economic Forum in Dalian, also known as the "Summer Davos". The IdeasLab featured an expert team from the University, led by the President. Discussion focused on brain research and aging issues with other global specialists. In January 2014, President Chan joined the World Economic Forum Annual Meeting 2014 in Davos, Switzerland, and engaged in discussions with global political, business and education leaders. He also participated in the Global University Leaders Forum with over 20 presidents from top universities, including Oxford, Cambridge, Yale, Massachusetts Institute of Technology, University of California, Berkeley, Korea Advanced Institute of Science and Technology (KAIST) and National University of Singapore, sharing insights on trends in global higher education, science, technology and innovation.

The President was invited to Saudi Arabia's International Exhibition and Conference on Higher Education as both the keynote speaker and a panelist on innovation in higher education. He also addressed the academic community at Princeton University, and gave speeches at the Times Higher Education World Academic Summit. The University's senior management were invited to speak at the Entrepreneurial University Leaders Programme, jointly developed by the United Kingdom's National Council for Entrepreneurship in Education, Oxford University and Universities UK.



Partnerships for Collaborations

To build international partnerships, President Chan led a delegation to Latin America to visit presidents and senior management of 12 leading universities in Brazil, Chile and Argentina. Other destinations included six top science and technology institutions. Among them were CIATEC, known as the Silicon Valley of Brazil, and the first-rate aeronautics cluster of Technological Institute of Aeronautics and its affiliate, Embraer, the world's third largest commercial jet manufacturer. The trip also saw senior management host seminars at the higher education institutions, media interviews with the President, and gatherings with alumni.

In addition to Latin America, senior management visited more than 30 other institutions around the world, ranging from Imperial College London and University of California, Los Angeles, to Technion Guangdong Institute of Technology.

The Targeted Strategic Partnerships give rise to 36 joint workshops at HKUST and partner universities, more than 70 faculty and student visits, as well as joint research papers and successful grant applications with the National Science Foundation of China and Research Grants Council of Hong Kong.

Global Exchange

HKUST was the sole university in Hong Kong invited to participate in "Study in France" Virtual Education Fair in November 2013. The event was presented by the Consulate General of France in Hong Kong and Macau to promote student mobility and information exchange among higher institutions in Hong Kong and France. The University was again the only local university to join Infiniti Performance Engineering Academy's global talent search, organized by Infiniti Motor Company in October 2013 to boost internship opportunities and career advancement for elite engineering students.

Students continued to benefit from the University's global network of 250 universities and institutions through academic and research exchange as well as internships at first-class institutions such as the Massachusetts Institute of Technology and the European Organization for Nuclear Research (CERN). The University entered into agreements with leading global universities and enterprises, including Harvard University, the National University of Singapore, Seoul National University, the University of Copenhagen, Leiden University College The Hague, the University of Minnesota, the University of Warwick, and Infiniti Motor Company Limited.

Relationship Building

As part of its globalization efforts, President Chan hosted a reception for consuls general from close to 40 countries in Hong Kong in September 2013. More than 110 international delegations visited HKUST during the year.

HKUST continued to be heavily involved in regional alliances, including the Association of East Asian Research Universities, the Association of Pacific Rim Universities and KAIST President's Advisory Council.





ORGANIZATION AND RESOURCES

Senior staff appointments, campus development, and environmentally friendly initiatives have all enhanced the University's endeavors

The University continued to build its human resources and foster staff development while advancing campus facilities and plans for further student accommodation, and moving forward on sustainability.

STAFF RECOGNITION AND DEVELOPMENT

Following an international search, the University Council announced the appointment of Mr Mark Hodgson, Chief Financial Officer at Aston University, UK, as the new Vice-President for Administration and Business, with effect from September 2014. In other senior administrative appointments, Mr Vincent Cheung became Director of Postgraduate Studies and Prof Angela Lai Ping Ng took up the post of Director of Undergraduate Recruitment and Admissions.

In recognition of loyalty to the University community, the Long Service Award was presented to 240 faculty and staff members with 20 years' service.

To enhance staff development, work-life balance was explored through a Wellness Program series providing quarterly health seminars. Preparation for those retiring was also offered through a seminar covering issues ranging from psychosocial adjustment to financial planning.

CAMPUS EXPANSION

The completion of facilities and relocation of the School of Business and Management to the Lee Shau Kee Campus enabled the University to rationalize and redistribute the space vacated. With funding from the

University Grants Committee, there has also been an opportunity to modernize existing facilities. This has seen the School of Humanities and Social Science, which now incorporates the Center for Language Education, consolidate its presence in the Academic Building. Provision includes space for common areas to facilitate more student interaction.

In the Piazza, The Hub is being created along with the refurbishment of the Tsang Shiu Tim Art Hall and University Bookstore. The Center seeks to increase student participation in programs for well-being, the enhancement of core competencies, and out-of-class learning experiences. A user-friendly and interactive Information Center is also underway.

During the year, construction of the Cheng Yu Tung Research and Academic Building reached its final stages while the Conference Tower being built adjacent to the HKUST Jockey Club Institute for Advanced Study Lo Ka Chung Building made good progress.

ADDING TO HOSTEL LIFE

Student accommodation remains a high priority. In addition to planning and developing new accommodation, the University has embarked on a modernization program for its existing halls. A joint hostel development in Tseung Kwan O is under development while planning for an additional 1,200 bed places on campus is on-going.

In September 2013, the Student Housing Office was reorganized as the Student Housing and Residential Life Office. The restructured office manages on-campus student housing, provides assistance to students in finding off-campus housing, and enhances students' residential experience through different activities.

Prof Lam Lung Yeung was appointed Head of Student Housing and Residential Life.

GREEN INITIATIVES

Sustainability at HKUST is visible on campus in many areas, from high efficiency lighting to paperless publishing, and from the organic farms at LG7 of the campus and the HKUST Eco Park to green roofs and building-integrated foliage. Of particular note in 2013-14 was the awarding of the rigorous HK-BEAM gold rating to Residential Halls VIII and IX.

Green endeavors continued among students, with exploration of issues from food waste practices to recycling behaviors. The creation of a Sustainable Campus Leadership Program saw students develop and implement sustainability projects while the launch of the Student Sustainability Advisory Group provided a further bridge between student life and sustainable campus operations. The fourth annual Green Week was also organized.



GOVERNANCE

The Court, Council and Senate are the three main bodies that constitute the governance structure at HKUST, as provided for under the University Ordinance and Statutes

The Court

The Court, the University's highest advisory body, held two meetings during the period under review. In October 2013, Members received a report from the President which covered, *inter alia*, an update on institutional advancement and outreach, staff recruitment and campus development, etc. At the meeting, Members were also apprised of the University's newly developed platform on online teaching which is an innovative learning model to go with the four-year undergraduate curriculum.

The meeting held in April 2014 focused on internationalization strategy, a key initiative in the University's five-year Plan. The University's continuous efforts to forge international relationships have brought dividends in global and regional reputation and branding, and benefited students by broadening their international exposure and intercultural experiences.

The Council

The Council is the University's highest governing body. It held four meetings during 2013-14. A number of issues had been reviewed by Members, which include refining the University's Mainland strategies.

Council appreciated that the University had worked out a long-term development plan of the Guangzhou HKUST Fok Ying Tung Research Institute (FYTRI), which calls for a re-focus of the Fok Ying Tung Graduate School and the FYTRI on the one hand, and the engagement of the HKUST R and D Corporation Limited and Technology Transfer Center on the other. According to this development plan, the respective units would be placed under one umbrella thus creating synergy as a Mainland platform to achieve HKUST's mission in knowledge transfer.

In addition, the talk series by HKUST senior administrators, initiated to give Council and Court Members further insight into the University's development, opened up opportunities for an informal exchange of views and better communication.

The Senate

The Senate, the supreme academic body of the University, is responsible for driving and regulating the University's academic policies. During the year, a number of new programs were introduced and modifications made to others to keep abreast of student needs. A set of revised guidelines for faculty performance assessment was approved, clearly defining performance excellence in teaching, research and service.

To enhance quality control, the Senate established a system of periodic reviews for all taught postgraduate programs offered by the University. Such reviews will follow a standard model, including internal self-evaluation, review of documents, visits by qualified external panel, and preparation of a report to the relevant Dean.

The Senate also adopted an Equal Opportunities Policy for Admission of Applicants with Disability.



AWARDS AND RECOGNITIONS

Faculty members and students have received numerous honors and accolades over the year. The following list is not exhaustive.

FACULTY



Prof Tianshou Zhao, Department of Mechanical and Aerospace Engineering, received a State Natural Science Award, Second Class, from the State Council of the PRC for the second consecutive year for pioneering work on direct alcohol fuel cells.



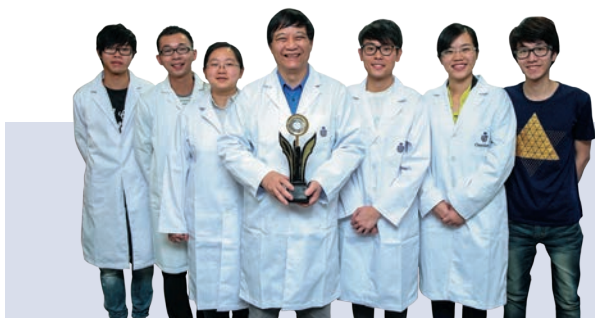
Prof Shihe Yang, Department of Chemistry, and researchers from Beijing University of Aeronautics and Astronautics and Peking University were awarded a State Natural Science Award, Second Class, for developing methodologies for synthesizing transition metal-based monodispersed nanomaterials.



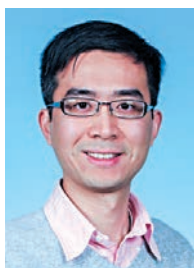
Prof Charles Ng, Department of Civil and Environmental Engineering, received a Higher Education Outstanding Scientific Research Output Award (Science and Technology), First Class in Scientific and Technological Progress, from the Ministry of Education for "Theory and Key Technology of the Stability and Deformation Control during the Whole Process of Large and Deep Excavation in Coastal Area". Prof Ng also received the 2013 Prix R M Quigley Award from the National Research Council Canada.

Dr Tian Fang, Department of Computer Science and Engineering, received a Higher Education Outstanding Scientific Research Output Award (Science and Technology), Second Class in Natural Science, for "Theories and Methods of Earth Surface Feature Modeling and Visualization Based on Multi-Sensor Spatial Data".

FACULTY



Prof Benzhong Tang, Department of Chemistry, received a Khwarizmi International Award (KIA), Second Class, from the Iranian Organization for Science and Technology.



Prof Xuhui Huang, Department of Chemistry, received the ACS OpenEye Outstanding Junior Faculty Award 2014 from the American Chemical Society.

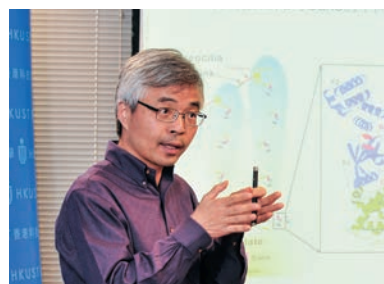


Prof Yaping Gong and Prof Larry Farh, Department of Management, won a 2013 Citation of Excellence Award from Emerald Management Reviews.



Prof Vladimir Chigrinov, Department of Electronic and Computer Engineering, won a Gold Medal and the Best Award in the Invention & Innovation Awards 2014 and a Silver Medal at the Creation, Innovation, Technology & Research Exposition (Citrex) 2014.

Prof Jun Shang Kuang, Department of Civil and Environmental Engineering, was awarded the Telford Premium 2014 by The Institution of Civil Engineers.

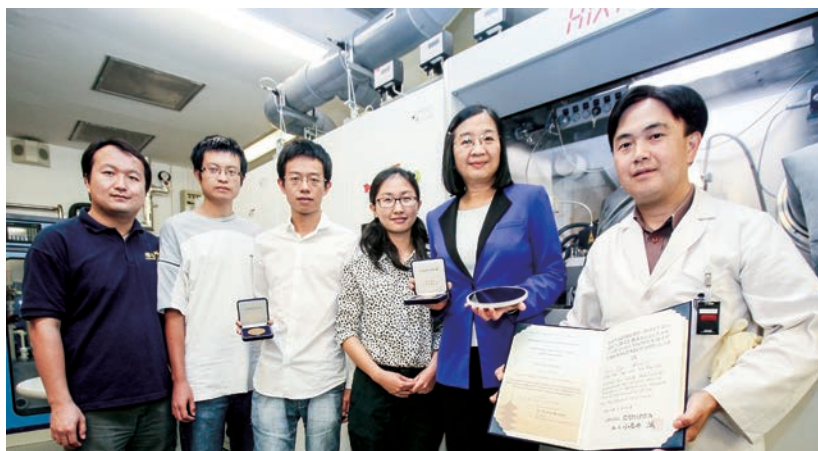


Prof Che Ting Chan, Department of Physics and Prof Mingjie Zhang, Division of Life Science, were awarded a total of around HK\$100 million for two research projects under the University Grants Committee's Areas of Excellence Scheme. The studies are focused on "Novel Wave Functional Materials for Manipulating Light and Sound" and "Mechanistic Basis of Synaptic Development, Signaling and Neuro-disorders" respectively.

Prof Benzhong Tang, Department of Chemistry, Prof Tianshou Zhao, Department of Mechanical and Aerospace Engineering, and Dr Jacky Lam, Department of Chemistry, were selected as the World's Most Influential Scientific Minds and Highly Cited Researchers, both by Thomson Reuters.



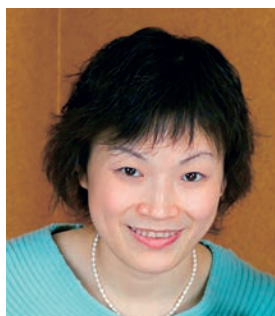
FACULTY



Prof Kei May Lau, Department of Electronic and Computer Engineering, won the JSAP Outstanding Paper Award organized by The Japan Society of Applied Physics.



Prof Matthew McKay, Department of Electronic and Computer Engineering, received the 8th Asia-Pacific Young Researcher Award from the IEEE Communications Society.



Prof Qian Zhang, Department of Computer Science and Engineering, received a First Class Award in Natural Sciences for Research Excellence from Hubei Province.

Prof Wouter Stam, Department of Management, received the Karen Legge Prize awarded by the *Journal of Management Studies*.



Prof Wenkai He, Division of Social Science, co-won the 2014 Barrington Moore Book Award, an annual honor awarded to the best book in the area of comparative and historical sociology by the American Sociological Association.



Prof Guochan Jia, Department of Chemistry, received the 2013 Yao Zeng Huang Award in Organometallic Chemistry from the Chinese Chemical Society.

Prof Melody Chao, Department of Management, received the 2013 Michael Harris Bond Award for Early Research Contributions from the Asian Association of Social Psychology, and the International Academy of Intercultural Research Early Career Award.



FACULTY

Fellows, board memberships



President Prof Tony F Chan, was elected a member of the US National Academy of Engineering.



Prof Jianshu Li, Department of Mathematics, was elected to the Chinese Academy of Sciences, becoming the first Hong Kong-based scholar to enter the Academy's Division of Mathematics and Physics.



Prof Khaled Ben Letaief, Department of Electronic and Computer Engineering, was elected Vice-President for Technical Activities of the IEEE Communications Society.



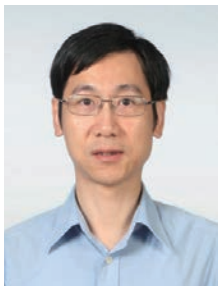
Prof Ricky Lee, Department of Mechanical and Aerospace Engineering, became a Fellow of the International Microelectronics Assembly and Packaging Society.



Prof Ravindra Goonetilleke, Department of Industrial Engineering and Logistics Management was elected a Fellow of the US Human Factors and Ergonomics Society.



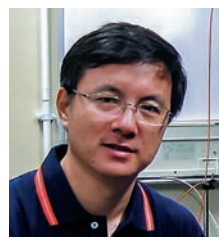
Prof Jean-Marie Tarascon, Department of Chemical and Biomolecular Engineering, became a Fellow of the Royal Society of UK.



Prof Christopher Leung, Department of Civil and Environmental Engineering, was made a Fellow of the Institution of Structural Engineers, Institution of Civil Engineers and International Association for Fracture Mechanics of Concrete and Concrete Structures.



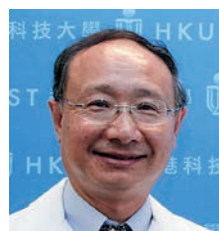
Prof Kevin Chen, Prof Howard Luong and Prof Philip Mok, Department of Electronic and Computer Engineering, were elected Fellows of the Institute of Electrical and Electronics Engineers.



Prof Jianan Qu, Department of Electronic and Computer Engineering, became a Fellow of the International Society for Optics and Photonics.



Prof Tongyi Zhang, Department of Mechanical and Aerospace Engineering, was elected a Fellow of the International Congress on Fracture: The World Academy of Structural Integrity.



Prof Joseph Kwan, Health, Safety and Environment Office, was elected a Distinguished Fellow by the American Industrial Hygiene Association.

STUDENTS AND RESEARCHERS

The HKUST Robotics Team comprising 72 students from different departments won a host of awards.



Robocon Teams

- Champion, First Runner-up, Best Engineering Award and Best Artistic Design Award, Robocon 2014 Hong Kong Contest
- Best Engineering Award, ABU Asia-Pacific Robot Contest 2013, Danang, Vietnam

Remotely Operated Vehicle (ROV) Team

- Overall Champion and Championship of the Undergraduate Section, Hong Kong IET Young Professionals Exhibition and Competition 2013
- Championship in the Explorer Class, Hong Kong/Asia Regional IET/MATE Underwater Robot Challenge
- Mr Dhesant Nakka, Year 1 School of Engineering, Engineering Evaluation Most Valuable Presenter "MVP" Award, MATE International ROV Competition 2014



Smart Car Teams

- Two Third Class Awards, Certificate of Merit, 8th Freescale Smart Car Competition, South China Region

STUDENTS AND RESEARCHERS

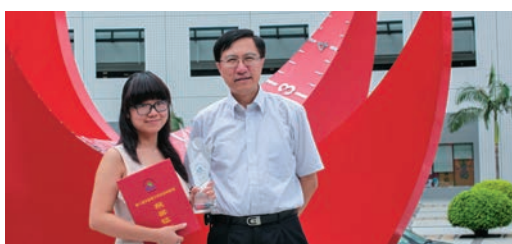


Five student teams from the School of Engineering won one Gold Award, one Silver Award and three Certificates of Excellence at the JEC Outstanding Engineering Project Awards 2014.



PhD student Mr Shanchao Zhang, Physics, won the 2013 Young Scientist Award, established by the Hong Kong Institute of Science.

PhD graduate in Life Science Ms Tracy Cui Guo won the 2013 David Cushing Prize from the *Journal of Plankton Research*.



PhD student Ms Lin Wang, Physics, received the Young Scientist Award from the European Materials Research Society.



Six student teams from the HKUST Schools of Engineering and Science won one First Class Award, three Second Class Awards and two Third Class Awards in the 13th National University Students Technology Challenge Cup Competition.



Undergraduate Ms Qiaojin Lin, Biology, was awarded a Gates Cambridge Scholarship 2013-14.



Two School of Engineering postgraduate teams, comprising MPhil students Mr Hoi Lam Chan and Mr Hon Pan Lo, Electronic and Computer Engineering, and PhD student Mr Chubin Ou and MPhil student Mr Jiaqi Wang, Mechanical and Aerospace Engineering, won two out of four First Place Awards at the 2013 GE Foundation TECH Award in Shanghai.

STUDENTS AND RESEARCHERS



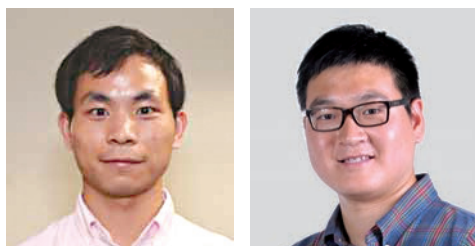
Ms Samantha Wing Man Kong, Chemical and Biomolecular Engineering, and Ms Phoebe Lam, School of Science, received the Top 10 Outstanding Youth Award under the 2013-14 Outstanding Youth Commendation Scheme, organized by the Home Affairs Bureau and the Commission on Youth. Samantha also received the Social Service Award.

Undergraduates Mr Junhong Cao, Mr Lingou Deng and Mr Xiongqi Zhang, Computer Science and Engineering, won the championship at the ACM-HK Programming Contest 2013.

Industrial Engineering and Logistics Management undergraduates Mr Chun Hei Chan, Mr Kin Lok Cheung, Mr Ming Him Chui and Mr Ting Kwan Tsui, won the championship at the HKIE-MI Student Project Competition 2013-14.

A team of HKUST Business School students won the Championship in the Citi International Case Competition 2013.

A team of HKUST students gained the Gold Medal Award, Division Regional Champion and Best Wikipage Design Award in the International Genetically Engineered Machine Competition (iGEM).



PhD candidates Mr Cheng Long, Computer Science and Engineering, and Mr Chi Yan Tso, Mechanical and Aerospace Engineering, gained Fulbright-RGC Hong Kong Research Scholar Awards 2014-2015. Mr Tso also received a Sir Edward Youde Memorial Fellowship 2013-14.



MPhil graduate Mr Tao Wang, Electronic and Computer Engineering, won the Youth Technology Achievement Award and First Class Award in the Technology Development Category at the 2013 Shenzhen Science and Technology Awards.



A HKUST MBA team comprising Ms Lauren Bonds, Ms Claudia-Catharina Hase, Mr Sashank Lanka, Mr Hiraku Tsuzuki and Mr Shane Xiong came first in the Marshall Global Consulting Challenge, organized by the University of Southern California.

STUDENTS AND RESEARCHERS



A HKUST Business School undergraduate team comprising Mr Nick Chung, Ms Nina Luo, Mr Henry Chow and Mr Muhammad Zakky Busiri, and another formed by Mr Jordy Hui, Ms Sandy Cheng, Mr Jonathan Hung and Ms Kandy Ho took the Championship and Second Runner-Up place respectively in the CIMA Global Business Challenge in Hong Kong. Ms Ho was also named Best Future Business Leader.

Undergraduates Mr Rex Sin, Ms Kelsey Zhu, Ms Jessica Kwok, and Mr Kenneth Chan, took the top spot at the 2014 Scotiabank International Case Competition, organized by the Ivey Business School in Canada.



An MBA team comprising Ms Alexandra Ho, Mr John Hsieh, Mr Derek Lowe and Mr Constantin Slioussarenko, came first in the Sofaer International Case Competition in Israel. Ms Ho together with MBA teammates Mr Brandon Kung, Mr Sean Kerr and Mr Kevin Yeung also won the Corporate Social Responsibility (CSR) Case Competition, organized by Chinese University of Hong Kong.

An MBA team comprising Ms Alexandra Ho, Mr John Hsieh, Mr Derek Lowe and Mr Constantin Slioussarenko, came first in the



Mr Mark Rossettie, Mr Ted Milonas, Mr Nitin Jain and Mr Lluís Pons won the Odyssey Global MBA competition, organized by the Columbia Business School in the US.



Mr Kenny Tsun Yat Lam, Dual Degree Program in Technology and Management, was selected by Musicus Inspires! as one of only two full-time Hong Kong students to compose a new work inspired by the Asia Society Hong Kong Center.



Mr Keith Jin Deng Chan and Ms Jasmine Man Ki Lee, Environmental Management and Technology, won the global competition, Go Green in the City 2014, organized by Schneider Electric.

Mr Ho Pan Chan, Dual Degree Program in Technology and Management, and his team triumphed in the Hong Kong Young Entrepreneur Challenge 2013, as well receiving the First Prize in the Ignite Entrepreneur Challenge 2013, International Category.

Mr Kwok Shiu Wong, Dual Degree Program in Technology and Management, and his team gained the Championship in UBS Group Technology Case Challenge.

Mr Tsz Kit Kwong, Dual Degree Program in Technology and Management, won the 9th Tecnifibre Squash Cup.

HONORARY DOCTORATES AND HONORARY FELLOWS

Honorary Doctorates

- Dr Yei Ching Chow, GBS, Chairman of the Chevalier Group
- Prof Marvin L Cohen, University Professor of Physics at the University of California at Berkeley and Senior Faculty Scientist at the Lawrence Berkeley National Laboratory
- Prof Evelyn L Hu, Tarr-Coyne Professor of Applied Physics and Electrical Engineering at Harvard University
- Dr Jack Ma, Chairman of Alibaba Group
- Prof Bright Zong-Liang Sheng, Leonard Bernstein Distinguished University Professor of Composition at the University of Michigan
- The Hon Yan Lung Wong, GBM, SC, Barrister and Former Secretary for Justice of the HKSAR Government



Honorary Fellows

- Dr Winnie Pui-shuen Ko, BBS, Garment and real estate entrepreneur, Chairman of Kingrich Asia Holdings Ltd
- Mr Ron McEachern, Former President of PepsiCo Asia and Adjunct Professor of HKUST School of Business and Management
- The Hon Abraham Lai-him Shek, GBS, SBS, JP, Legislative Councillor
- Dr David Wai-kin Sin, Jewelry and real estate entrepreneur, Founder-Chairman of Myer Jewelry Manufacturer Ltd

HKUST MEDALS



Prof Veronique Lafon-Vinai, Department of Finance, Prof Anirban Mukhopadhyay, Department of Marketing, Prof Yongsuk Kim, Department of Information Systems, Business Statistics & Operations Management, Prof Elizabeth George, Department of Management, Prof Ralf van der Lans, Department of Marketing, and Prof Kai Lung Hui, Department of Information Systems, Business Statistics & Operations Management were awarded the Franklin Prize for Teaching Excellence. The Department of Marketing won the departmental award.



Prof Yongsuk Kim, Prof Jeevan Jaisingh, Prof Sejoon Hong and Mr Himson Wu, Department of Information Systems, Business Statistics and Operations Management, won the HKUST Common Core Course Excellence Award 2013 for the course "Technology and Innovation: Social and Business Perspectives".

Mr Green Wing Sum Lam, Department of Physics and President of the HKUST Students' Union 2012-13, was awarded the Stephen Cheong Kam-chuen Medal for Distinguished Service to the Student Body.



Prof Jimmy Fung, Department of Mathematics and Division of Environment, received the Michael G Gale Medal for Distinguished Teaching Award.

A team comprising Mr Ali Ahmer Asif, Mr Mohammed Danish, Mr Nadir Hoshi and Mr Ka Wai Tsoi, Mechanical and Aerospace Engineering, won the HKUST President's Cup.



Year 2 Physics student Mr Ho-tat Lam won the 2014 Mr Armin & Mrs Lillian Kitchell Undergraduate Research Award.

CALENDAR OF EVENTS 2013-14

2013

JUL

- HKUST research projects in photonic and phononic advanced materials and signaling mechanisms in neuro-disorders were awarded close to HK\$100 million in total by the University Grants Committee under its Areas of Excellence Scheme.
- Faculty members of the Division of Life Science played major organizational roles in two Gordon Research Conferences on Marine Molecular Ecology and Posttranslational Modification Networks.
- The William Mong Institute of Nano Science and Technology launched a year-long nano seminar series, involving researchers in Hong Kong, Mainland China, Japan, Korea, Singapore and Spain.
- The Department of Physics organized the HKUST IAS Program on Statistical Physics and Computational Neuroscience.

AUG

- Prof Xiangrong Wang, Department of Physics, chaired the organizing committee of the Gordon Research Conference on Spin Dynamics in Nanostructures, held at HKUST.
- The School of Engineering hosted the Tsinghua-HKUST Programming Contest 2013, helping to foster students' creativity, teamwork, and innovation and to promote cultural exchange.

SEP

- Prof Tony F Chan was reappointed President of the University for another term by the HKUST Council. The new term runs until 2019.
- HKUST held the opening ceremony of the Lee Shau Kee Campus and Lee Shau Kee Business Building, marking a milestone in the University's development.
- The University held its first specially named HKUST IdeasLab at the Annual Meeting of the New Champions of the World Economic Forum, also known as the "Summer Davos", in Dalian. Four senior professors from HKUST shared insights on brain research and aging at the IdeasLab.



- HKUST established the Partner State Key Laboratory on Advanced Displays and Optoelectronics Technologies with Sun Yat-Sen University, following approval from the Ministry of Science and Technology.
- The Department of Mechanical Engineering officially changed its name to the Department of Mechanical and Aerospace Engineering.
- The Department of Industrial Engineering and Logistics Management held a 20th anniversary forum and commemorative dinner. A plaque was presented to the wife of late Prof Raymond Cheung in recognition of his achievements.
- The School of Engineering hosted the inaugural HKUST-USC Joint Workshop on Big Data Applications.
- The University and strategic partner École Polytechnique Fédérale de Lausanne held the first EPFL-HKUST Workshop on Computer and Communication Sciences.
- The School of Humanities and Social Science co-organized an interdisciplinary conference on Wealth Accumulation and Inequality of Opportunities with the HKUST Institute for Emerging Market Studies, French Center for Research on Contemporary China, and the Groupe d'Analyse et de Théorie Economique.
- The Division of Environment and HKUST Fok Ying Tung Graduate School held a seminar on "High Performance Computing Applications for the TianHe-1A Supercomputer", hosted by Prof Luo Jun, Deputy Director of the National Supercomputer Center in Tianjin.

OCT

- HKUST received a US\$500,000 donation from the Tongyi Industrial Group to boost the development of the Center for Electronic Commerce at HKUST Business School. The Center was named after the Group in appreciation of its generosity.
- The Kellogg-HKUST Executive MBA (EMBA) program was ranked No.1 in the world by the *Financial Times* for the fifth straight year.
- HKUST partnered with Infiniti Motor Company Limited, offering top engineering students the opportunity to gain experience at the new Infiniti Performance Engineering Academy.
- The Division of Humanities and HKUST Jockey Club Institute for Advanced Study co-organized an international forum entitled "What Can a Writer Do While Facing the Absurd Reality?". Writers and academics in attendance included Leo Ou Fan Lee, Pingyuan Chen, Ziping Huang, Zidong Xu, Yao Wang, Carlos Rojas as well as Zaifu Liu, Lianke Yan and Hua Yu.
- The Department of Computer Science and Engineering and Hong Kong Federation of Education Workers jointly held the Android Application Design Contest, enabling secondary school participants to demonstrate their programming skills and innovative ideas.
- The Department of Chemical and Biomolecular Engineering arranged a celebration party to mark its 20th anniversary.



NOV

- HKUST held its 21st Congregation, conferring honorary doctorates on six distinguished academics and leaders. Dr Jack Ma Yun, Chairman of Alibaba Group, became HKUST's first Commencement Speaker.
- A naming ceremony took place for the HKUST Jockey Club Institute for Advanced Study together with the inauguration of HKUST Jockey Club IAS Named Professorships.
- The Li Ka Shing Foundation donated HK\$20 million to HKUST to broaden students' global vision and nurture innovative future leaders.
- An opening ceremony was held for the Hong Kong Chiu Chow Chamber of Commerce Ko Pui Shuen Gallery, which houses valuable ancient maps and classical science and technology-related rare books.
- HKUST ranked 18th in the world and No.1 in Greater China in the Global Employability University Ranking 2013.
- Dr Allan Zeman, "Father of Lan Kwai Fong", spoke on entrepreneurship at the UC RUSAL President's Forum.
- The Division of Environment co-organized the Fifth Conference on East Asia and Western Pacific Meteorology and Climate cum Hong Kong Meteorological Society 25th Anniversary, with the Chinese American Oceanic and Atmospheric Association, Hong Kong Meteorological Society, Hong Kong Observatory, the Chinese University of Hong Kong, and World Green Organization.

- HKUST Business School invited Mr Michael Wu, Chairman and Managing Director of Maxim's Group, to speak at the bi-annual Global Leadership Forum and share his leadership challenges in running a chain of restaurants and outlets in Hong Kong and Mainland China.
- The School of Engineering organized Microsoft Research Asia (MSRA) Hong Kong Day to mark the 10th anniversary of the Ministry of Education HKUST-MSRA Key Lab.

DEC

- HKUST held a naming ceremony for the Lo Ka Chung Building, home of the HKUST Jockey Club Institute for Advanced Study.
- HKUST partnered with the UNESCO-IHE Institute for Water Education in a project using HKUST-developed sewage treatment technologies to tackle water scarcity in Cuba.
- HKUST held the 12th Conference of the 2013 Asian Crystallographic Association (AsCA'13), hosted by Prof Ian D Williams, Department of Chemistry.
- HKUST formed a partnership with Smith College to develop women's leadership in Asia's public service sector.
- HKUST Business School held its first homecoming day for alumni.



2014

JAN

- HKUST and the University of Oxford jointly established the Oxford-HKUST Leadership and Public Policy Series (LAPP). The Honorable C Y Leung, Chief Executive of the Hong Kong Special Administrative Region, and Prof Andrew Hamilton, Vice-Chancellor of the University of Oxford, were among the officiating guests at the Launch Forum.
- The School of Engineering held the HKUST-Stanford University Joint Course on Global Manufacturing.
- The Division of Environment co-organized the fourth International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions, with the HKSAR Environment Bureau, Tsinghua University, South China University of Technology and Guangdong Regional Atmospheric Environmental Research Center.
- For the eighth year, the Dual Degree Program and the University of Illinois at Urbana Champaign jointly held the Technology and Management International Business Plan Competition.
- HKUST and the University of Southern California arranged a forum on 3D printing.

- The Department of Physics organized the IAS Program on Frontiers of Soft Matter Physics: From Non-equilibrium Dynamics to Active Matter, the IAS Program on Topological Matter, Superconductivity and Majorana, and the IAS Program on Wave Functional Materials.

FEB

- HKUST President Prof Tony F Chan was elected a member of the US National Academy of Engineering.
- Prof Jianshu Li, Department of Mathematics, was elected a member of the Chinese Academy of Sciences.
- HKUST Business School was ranked top in Asia and 20th in the world by the University of Texas at Dallas for its research articles.
- HKUST became the host institution for the 57th International Mathematical Olympiad to be held in Hong Kong in 2016.
- Long Service Awards were presented to 240 faculty and staff members in recognition of their loyalty and contribution to HKUST's achievements.



MAR

- HKUST celebrated the opening of the HKUST Energy Institute and held its first forum on sustainable energy.
- Mr Mark Hodgson was appointed Vice-President for Administration and Business, with effect from September 2014.
- Lenovo founder Mr Chuanzhi Liu spoke on “China’s Latest Manufacturing Growth” at the UC RUSAL President’s Forum.
- HKUST Business School invited Ms Maggie Wu, Chief Financial Officer of Alibaba Group, to speak on the Group’s milestone developments and driving force.
- The Dual Degree Program in Technology and Management celebrated its 10th Anniversary.

APR

- HKUST Business School maintained its business and accounting accreditation with the Association to Advance Collegiate Schools of Business International (AACSB).
- HKUST launched three Massive Open Online Courses on edX, a major provider of MOOCs.
- The Department of Electronic and Computer Engineering, together with organizers from the University of Hong Kong and Zhejiang University, held the third Brainstorming Workshop on 5G Wireless at HKUST.
- HKUST Business School hosted the 2014 UNICON Directors’ Conference, drawing deans and directors of executive education from over 50 top universities and business schools.
- The first Hackathon@HKUST was organized to encourage students to propose new ideas for building software applications.
- Science Toy Design Competition was launched at HKUST together with NSI International Inc, a leading designer and manufacturer of educational toys in the US.
- The fourth Intimacy of Creativity season took place. The innovative event, where young composers work with established musicians, drew a record 199 submissions from over 40 countries in the call-for-scores.



MAY

- Prof Jitendra V Singh was appointed Dean of HKUST Business School, with effect from September 2014.
- HKUST formed a partnership with Thales, a major electronics systems group, to boost innovation and technological development.
- The first HKUST-Technion Workshop on Systems Engineering: Theory, Data, Applications was held at Technion-Israel Institute of Technology.

JUN

- The University conferred honorary fellowships on four distinguished leaders.
- HKUST Business School launched a pioneering elective course on Social Entrepreneurship and Venture Philanthropy, with the support of Yeh Family Philanthropy.
- HKUST co-chaired a Gordon Research Conference on “Hybrid Electronic & Photonic Materials and Phenomena – Understanding the Interplay between Organic and Inorganic Materials”, with overseas universities, including École Polytechnique Fédérale Lausanne and Northwestern University.

- The School of Humanities and Social Science and University of California, Los Angeles, co-organized a workshop on “Rewriting the Past: Historical Big Data and a Scholarship of Discovery”, which brought together major researchers from Mainland China, Japan, Korea, Taiwan and the US.
- The HKUST-University of Virginia Jefferson Global Seminars assisted students from both universities to engage in dialogue and develop a cross-cultural perspective.
- The Department of Industrial Engineering and Logistics Management and the China Academy of Art ran a second Design Thinking course to encourage creativity, create fusion for design and technology ideas and foster cross-disciplinary expertise.
- The HKUST 2014 One Million Dollar Entrepreneurship Competition saw a total of 117 teams participate in the event.



FACTS AND FIGURES

STUDENTS

STUDENT ENROLMENT (as of 30 Sep 2014)				
School / Area	Undergraduate	Postgraduate		Total
		Research	Taught	
Science	2080	494	154	2728
Engineering	3170	1115	916	5201
Business and Management	3160	105	1313	4578
Humanities and Social Science	204	68	181	453
HKUST Fok Ying Tung Graduate School	0	53	0	53
Joint School/Interdisciplinary Programs	367	28	48	443
Total	8981	1863	2612	13456

NON-LOCAL STUDENT ENROLMENT (2013-14)				
Home Country	Undergraduate	Postgraduate		Total
		Research	Taught	
Mainland China	694	1044	1036	2774
Other Asian Countries	491	107	163	761
Rest of the World	80	42	169	291
Total	1265	1193	1368	3826

UNDERGRADUATE EXCHANGES (2013-14)				
Host / Destination Region	Exchange-in	%	Exchange-out	%
Mainland China	97	10.7	70	7.8
Asia	167	18.5	235	26.3
North America	324	35.9	246	27.6
Central and South America	3	0.3	0	0
Europe	308	34.1	334	37.4
Australia and New Zealand	4	0.5	7	0.9
Africa	0	0	0	0
Total	903	100	892	100

GRADUATE NUMBERS (2013-14)				
School / Area	Undergraduate	Postgraduate		Total
		Research	Taught	
Science	494	108	114	716
Engineering	750	199	698	1647
Business and Management	728	37	657	1422
Humanities and Social Science	32	30	180	242
HKUST Fok Ying Tung Graduate School	-	31	-	31
Joint School/Interdisciplinary Programs	97	13	39	149
Total	2101	418	1688	4207

EMPLOYMENT (2013)

	Undergraduate	Postgraduates			
		PhD	MPhil	Taught Master (Except MBA)	MBA
Employment Situation	%	%	%	%	%
Employed	81.5	82.5	39.6	58.4	78.6
Further Studies	15.1	0.7	43.4	8.7	9.0
Returned to Home Country or Emigrated	1.5	13.1	9.4	24.3	0
Others	1.9	3.7	7.6	8.6	12.4
Employment Situation by Industry	%	%	%	%	%
Commerce and Business	59.7	4.0	21.1	40.9	100
Engineering and Industry	26.1	11.1	23.6	44.5	0
Education	7.9	82.8	47.4	10.5	0
Government and Related Organizations	4.2	2.0	2.6	2.0	0
Community and Social Services	2.1	0	5.3	2.1	0

FACULTY

FACULTY MEMBERS (as of 30 Jun 2014)

School / Area	Regular	Visiting	Total
Science	127	15	142
Engineering	159	27	186
Business and Management	138	24	162
Humanities and Social Science*	82	60	142
Interdisciplinary Programs	8	4	12
Total	514	130	644

* The teaching staff of the Centre for Language Education are included following its merger with SHSS on 1 July 2012.

RESEARCH

NO. OF NEW RESEARCH PROJECTS AND FUNDING (2013-14)

	Number	Funding (in HK\$M)
UGC	308	89.5
RGC	219	177.2
Others	349	218.5
Total	855*	485.2**

* No. of projects does not add up due to projects with multiple sponsors.

** Includes R&D projects administrated by R and D Corporation and Mainland platforms. Excludes R-portion i.e. on-costs, PI costs and HSS Premium provided by RGC for ERG projects.

NO. OF PATENTS (2013-14)

Filed	195
Granted	80

FACTS AND FIGURES

INTERNATIONAL RANKINGS

As of 31 Oct 2014

HKUST	No. 2 in the world <i>(World's Top 50 Universities Under 50, QS Top 50 Under 50 2014)</i>
	No. 5 in Asia <i>(Asia's Top 300 Universities, QS Asian University Rankings 2014)</i>
	No. 40 in the world <i>(World's Top 800 Universities, QS World University Rankings 2014)</i>
	No. 51 in the world <i>(World's Top 400 Universities, Times Higher Education World University Rankings 2014/15)</i>
School of Science	No. 2 in Hong Kong, No. 11 in Asia <i>(Asia's Top 100 Universities in Natural Sciences, QS Asian University Rankings 2014)</i>
	No. 2 in Hong Kong, No. 65 in the world <i>(World's Top 400 Universities in Natural Sciences, QS World University Rankings 2014)</i>
	No. 12 in Asia <i>(Asia's Top 100 Universities in Life Sciences and Medicine, QS Asian University Rankings 2014)</i>
	No. 1 in Hong Kong, No. 29 in the world <i>(World's Top 200 Universities in Materials Sciences, QS World University Rankings by Subject 2014)</i>
	No. 1 in Hong Kong, No. 19 in the world <i>(World's Top 200 Universities in Chemistry, QS World University Rankings by Subject 2014)</i>
	No. 1 in Hong Kong, No. 25 in the world <i>(World's Top 200 Universities in Environmental Sciences, QS World University Rankings by Subject 2014)</i>
	No. 45 in the world <i>(World's Top 200 Universities in Mathematics, QS World University Rankings by Subject 2014)</i>
School of Engineering	No. 1 in Hong Kong, No. 8 in Asia <i>(Asia's Top 100 Universities in Engineering and Technology, QS Asian University Rankings 2014)</i>
	No. 1 in Hong Kong, No. 15 in the world <i>(World's Top 400 Universities in Engineering and Technology, QS World University Rankings 2014)</i>
	No. 1 in Greater China, No. 21 in the world <i>(World's Top 100 Universities in Engineering and Technology, Times Higher Education World University Rankings 2014/15)</i>
	No. 1 in Greater China, No. 11 in the world <i>(World's Top 200 Universities in Computer Science and Information Systems, QS World University Rankings by Subject 2014)</i>
	No. 1 in Greater China, No. 11 in the world <i>(World's Top 200 Universities in Electrical and Electronic Engineering, QS World University Rankings by Subject 2014)</i>
	No. 2 in Greater China, No. 12 in the world <i>(World's Top 200 Universities in Civil and Structural Engineering, QS World University Rankings by Subject 2014)</i>
	No. 1 in Hong Kong, No. 26 in the world <i>(World's Top 200 Universities in Chemical Engineering, QS World University Rankings by Subject 2014)</i>
	No. 2 in Greater China, No. 32 in the world <i>(World's Top 200 Universities in Computer Science, Academic Ranking of World Universities by Shanghai Jiao Tong University 2014)</i>

School of Engineering (continued)	No. 1 in Hong Kong, No. 20 in the world (World's Top 200 Universities in Mechanical, Aeronautical and Manufacturing Engineering, QS World University Rankings by Subject 2014)
	No. 2 in Hong Kong, No. 39 in the world (World's Top 200 Universities in Engineering/Technology and Computer Sciences, Academic Ranking of World Universities by Shanghai Jiao Tong University 2014)
School of Business and Management	Kellogg-HKUST EMBA Program: No. 2 in the world, No. 1 in 3-year average rank (Global EMBA Rankings, Financial Times 2014)
	Full-Time MBA Program: No. 14 in the world (Global MBA Rankings, Financial Times 2014)
	No. 8 in Asia (Asia's Top 100 Universities in Social Sciences and Management, QS Asian University Rankings 2014)
	No. 3 in Greater China, No. 26 in the world (World's Top 400 Universities in Social Sciences and Management, QS World University Rankings 2014)
	No. 1 in Greater China, No. 15 in the world (World's Top 200 Universities in Statistics and Operational Research, QS World University Rankings by Subject 2014)
	No. 2 in Greater China, No. 19 in the world (World's Top 200 Universities in Accounting and Finance, QS World University Rankings by Subject 2014)
	No. 2 in Greater China, No. 30 in the world (World's Top 200 Universities in Economics and Econometrics, QS World University Rankings by Subject 2014)
	No. 1 in Asia, No. 20 in the world (University of Texas at Dallas (UTD) Top 100 Business School Research Rankings, 2014, based on research contributions in 2009-2013)
School of Humanities and Social Science	No. 1 in Asia, No. 46 in the world (World's Top 200 Universities in Economics/Business, Academic Ranking of World Universities by Shanghai Jiao Tong University 2014)
	No. 2 in Greater China, No. 38 in the world (World's Top 100 Universities in Social Sciences, Times Higher Education World University Rankings 2014/15)
	No. 8 in Asia (Asia's Top 100 Universities in Social Sciences and Management, QS Asian University Rankings 2014)
	No. 3 in Greater China, No. 26 in the world (World's Top 400 Universities in Social Sciences and Management, QS World University Rankings 2013)
	No. 39 in Asia (Asia's Top 100 Universities in Arts and Humanities, QS Asian University Rankings 2014)
	No. 1 in Greater China, No. 76-100 in the world (World's Top 200 Universities in Social Science, Academic Ranking of World Universities by Shanghai Jiao Tong University 2014)
	No. 2 in Greater China, No. 38 in the world (World's Top 100 Universities in Social Sciences, Times Higher Education World University Rankings 2014/15)

APPENDICES

APPENDIX I: COURT, COUNCIL AND SENATE

As of 30 June 2014

COURT MEMBERSHIP			
	Chairman	Dr John C C Chan, GBS, JP	
	Honorary Chairmen	Dr the Hon Sir Sze-Yuen Chung, GBM, JP Dr Vincent H S Lo, GBS, JP	
Ex-Officio Members	Chairman of the Council	Dr Marvin K T Cheung, GBS, JP	
	Vice-Chairman of the Council	Mr Martin Y Tang	
	Treasurer of the University	Mr John B Harrison	
	President of the University	Prof Tony F Chan, JP	
	Executive Vice-President & Provost	Prof Wei Shyy	
	President of the Students' Union	Mr Van Wai-Lun Law	
	President of the Alumni Association	Mr Alvin Lam	
	Chairman of the Staff Association	Mr Donny K M Siu	
Honorary Members	The Hon Sir David Akers-Jones, GBM, JP	Mr Walter P S Kwok, JP	
	Dr Robin Y H Chan, GBS, JP	Dr Lau Wah-Sum, GBS, JP	
	Dr Thomas T T Chen	The Hon Lau Wong-Fat, GBM, GBS, JP	
	Dr Christopher Cheng, GBS, OBE, JP	Dr the Hon Charles Y K Lee, GBM, GBS, JP	
	Dr Henry Cheng, GBS	Dr the Hon Lee Shau-Kee, GBM	
	Dr Cheng Hon-Kwan, GBS, OBE, JP	Dr the Hon Andrew K N Li, GBM	
	Mr Paul M F Cheng, JP	Ms Kai-Yin Lo, SBS	
	Mr Linus W L Cheung, JP	Mr Winston Yau-Lai Lo, SBS	
	Dr Raymond K F Ch'ien, GBS, JP	Dr the Hon Lui Che-Woo, GBM, GBS, MBE, JP	
	Dr Alice Chiu, BBS, JP	Mr Tim Lui Tim-Leung, BBS, JP	
	Dr Stephen Chow, SBS, JP	Dr Anthony Neoh, SC, JP	
	Dr Chow Yei Ching, GBS	Mr David Teng Pong	
	Dr Kenneth H Fang, GBS, JP	The Hon Sin Chung-Kai, SBS, JP	
	Dr William K Fung, SBS, JP	Mr Kenneth Ting Woo-Shou, SBS, JP	
	Dr the Hon Hari N Harilela, GBM, GBS, OBE, JP	Dr Lawrence T Wong	
	Mr Hu Fa-Kuang, GBS, CBE, JP	Dr Wilfred Y W Wong, SBS, JP	
	Mr Herman S M Hu, BBS, JP	Ms Marjorie Yang, GBS, JP	
	Mr Lester G Huang, JP	Dr Geoffrey M T Yeh, SBS, JP	
	Dr Simon S O Ip, JP	Dr Larry C K Yung	
	Dr Roger King		
	Appointed Members	Mr Bernard Auyang	Mr Hans Michael Jebsen, BBS
		Dr Anissa Chan, MH, JP	Mr Keith Graham Kerr, SBS, JP
		Dr Charles S C Chan, BBS, JP	Mr Herbert S K Lee
Dr Ian Chan Yau-Nam, MH		Mr Marcus C W Lee	
Ms Ronna W Chao		Ms Margaret Lee Pui-Man	
Mr Chau How-Chen, GBS, JP		Ms Rose Lee Wai-Mun	
Mr Herbert S Cheng Jr		Dr Raymond Leung Siu-Hong	

COURT MEMBERSHIP *(continued)*

	Mr Donald Chia, JP	Mr Ted Ling
	Ms Lai-Yuen Chiang, JP	Mr Sing-Cheong Liu, JP
	Dr Paul M Y Chow, GBS, JP	Mr Colin Lo Chor-Cheong
	Mrs Susan Chow	Mr Raymond C Lo
	Mr Ian C W Fok, SBS, JP	Mrs Noelle Lu
	Mr David Fong Man-Hung, BBS, JP	Dr Ronald Lu
	Mr Tim Freshwater	Mr Francis Lui Yiu-Tung
	Dr Patrick Y B Fung, JP	Dr Michael H H Mak, SBS, JP
	Mrs Rossana Wang Gaw	The Hon Abraham Shek Lai-Him, GBS, JP
	Dr Aron H Harilela	Mrs Christine Wong, SBS
	Ms Katherine Hung Siu-Lin	Mr Billy Yung Kwok-Kee
Appointed Senate Representatives	Prof Che-Ting Chan	Prof Peiyuan Qian
	Prof Karl Herrup	

COUNCIL MEMBERSHIP

	Chairman	Dr Marvin K T Cheung, GBS, JP
	Vice-Chairman	Mr Martin Y Tang
	Treasurer of the University	Mr John B Harrison
	President of the University	Prof Tony F Chan, JP
	Executive Vice-President & Provost	Prof Wei Shyy
	Vice-President	Prof Joseph Hun-Wei Lee, <i>Research and Graduate Studies</i>
	Deans	Prof James Lee, <i>Dean of Humanities and Social Science</i>
		Prof Kar-Yan Tam, <i>Dean of Students</i>
Academic Members of the Senate	Prof Kalok Chan	Prof Peiyuan Qian
Chairman of Convocation	Mr Sean Lin	
Elected Staff Member	Mr Donny K M Siu	
Elected Student Member	Mr Chan Tung Choi Sam	
Members Not Being Employees or Students of the University	Mr Oscar V T Chow	Ms Catherine K C Leung
	Ms Anita Fung Yuen-Mei, BBS	Mr Maximilian Y K Ma
	Mrs Yvette Yeh Fung	Mr Kyran Sze
	Ms Teresa Ko Yuk-Yin, JP	Mr Wong Tat-Sum Samuel
	Mr Quinn Y K Law, JP	Ms Woo Chun-En Jennifer
	Mr Michael Lee Tze-Hau, JP	Mr Michael Wu Wei-Kuo
	The Hon Starry Lee Wai-King, JP	Mr Patrick Yeung Wai-Tim

APPENDICES

APPENDIX I: COURT, COUNCIL AND SENATE (continued)

SENATE MEMBERSHIP			
Chairman	Prof Tony F Chan, President		
Executive Vice-President & Provost	Prof Wei Shyy		
Vice-Presidents	Dr Eden Y Woon, <i>Institutional Advancement</i> Prof Joseph Hun-Wei Lee, <i>Research and Graduate Studies</i>		
School of Science	Prof Nancy Y Ip, <i>Dean</i>	Prof Karl Herrup	Prof Jiannong Wang
	Prof Michael S Altman	Prof Zhenyang Lin	Prof Zhenguo Wu
	Prof Bradley A Foreman	Prof Allen Moy	Prof Jun Xia
School of Engineering	Prof Khaled Ben Letaief, <i>Dean</i>	Prof Jangkyo Kim	Prof Fugee Tsung
	Prof Guohua Chen	Prof Christopher K Y Leung	Prof Matthew M F Yuen
	Prof Siu-Wing Cheng	Prof Ross D Murch	Prof Tianshou Zhao
	Prof Ravindra S Goonetilleke	Prof Charles W W Ng	
School of Business and Management	Prof Kalok Chan, <i>Acting Dean</i>	Prof Kristiaan Helsen	Prof James Y L Thong
	Prof Kevin C W Chen	Prof Siu-Fai Leung	Prof Shaohui Zheng
	Prof Sudipto Dasgupta	Prof J T Li	
	Prof Albert Ha	Prof Emily M Nason	
School of Humanities and Social Science	Prof James Lee, <i>Dean</i>	Prof Billy K L So	
	Prof Yongshun Cai	Prof Kellee Tsai	
HKUST Fok Ying Tung Graduate School	Prof Lionel M Ni, <i>Dean</i>		
Dean of Students	Prof Kar-Yan Tam		
XJTU-HKUST Joint School of Sustainable Development	Prof Jingshen Wu, <i>Dean</i>		
Interdisciplinary Programs Office	Prof Chi-Ming Chan, <i>Director</i>	Prof Jimmy Fung	Prof I-Ming Hsing
Elected Members of the Academic Staff	Prof Roger Shu-Kwan Cheng	Prof King-Lau Chow	Prof Benzhong Tang
Co-opted Members of the Academic Staff	Prof David K Banfield	Prof Ravindra Goonetilleke	Prof Karl W K Tsim
	Prof Che-Ting Chan	Prof Robert K M Ko	Prof Henry Tye
Directors	Mr Robert Brashear, <i>Academic Records and Registration</i>	Ms Diana L H Chan, <i>Library</i>	Mrs Pandora Yuen, <i>Student Affairs</i>
Student Representative	Mr Van Wai-Lun Law, <i>President of Students' Union</i>		

APPENDIX II: ATTENDANCE OF MEMBERS AT COUNCIL MEETINGS

Date of meeting	Total number of Council members	Number of members present	Percentage of members present
11 September 2013	27	23	85%
10 December 2013	27	23	85%
22 April 2014	27	21	78%
20 June 2014	27	16	59%

APPENDIX III: ACADEMIC ADVISORY COMMITTEES

SCHOOL OF SCIENCE ADVISORY COMMITTEE

Prof Marvin Cohen

University Professor, Department of Physics
University of California, Berkeley
USA

Prof Patrick Lee

William & Emma Rogers Professor of Physics
Division Head, Atomic, Biological, Condensed
Matter and Physics
Massachusetts Institute of Technology
USA

Prof Xiaodong Wang

Director and Investigator
National Institute of Biological Sciences
Beijing
PR China

Prof Roger E Howe

Professor, Department of Mathematics
Yale University
USA

Prof George Papanicolaou

Robert Grimmett Professor in Mathematics
Department of Mathematics
Stanford University
USA

Prof Weitao Yang

Philip Handler Professor of Chemistry
Department of Chemistry
Duke University
USA

Prof Roberto Kolter

Professor
Department of Microbiology and
Immunology
Harvard Medical School
USA

Prof Randy Schekman

Howard Hughes Investigator and Professor of
Cell and Developmental Biology,
Department of Molecular and Cell Biology
University of California, Berkeley
USA

Prof King-Wai Yau

Professor of Neuroscience
The Solomon H. Snyder Department of
Neuroscience, Johns Hopkins University
USA

Prof Jean-Marie Lehn

Director of the Supramolecular Chemistry
Laboratory
Institut de Science et d'Ingénierie
Supramoléculaires (ISIS)
Université Louis Pasteur, Strasbourg
France

SCHOOL OF ENGINEERING ADVISORY COMMITTEE

Prof Eduardo D Glandt

Nemirovsky Family Dean
School of Engineering and Applied Science
Professor of Chemical and
Biomolecular Engineering
University of Pennsylvania
USA

Prof Yinyu Ye

K. T. Li Chair Professor of Engineering
Management Science & Engineering
Director, Industrial Affiliates Program
Stanford University
USA

Mr Pindar Wong

Chairman
VeriFi (HK) Limited

Prof Gregory Fenves

Executive Vice President and Provost
Professor of Civil, Architectural, and
Environmental Engineering
The University of Texas at Austin
USA

Prof King-Ning Tu

Department of Materials Science &
Engineering
Henry Samueli School of Engineering and
Applied Science
University of California, Los Angeles
USA

Mr Victor Ng

Managing Director
Micom Tech Limited

Prof M Tamer Özsü

Associate Dean (Research) of
Faculty of Mathematics
Professor of Database Research Group
David R. Cheriton School of
Computer Science
University of Waterloo
Canada

Ir Daniel M CHENG, MH, JP

Managing Director
Dunwell Enviro-Tech (Holdings) Ltd

Mr Stanley Hui Hon-chung

Chief Executive Officer
Airport Authority Hong Kong

Prof Vincent Poor

Dean of School of Engineering and
Applied Science
Michael Henry Strater University Professor
of Electrical Engineering
Princeton University
USA

Ir Dr Andrew Chan Ka-ching

Deputy Chairman
Arup Group

Ir Dr Hon LO Wai Kwok

Member of the Legislative Council
Hong Kong

APPENDICES

APPENDIX III: ACADEMIC ADVISORY COMMITTEES *(continued)*

SCHOOL OF BUSINESS AND MANAGEMENT ADVISORY COUNCIL		
Dr FUNG Kwok Lun, William, SBS, OBE, JP Group Chairman Li & Fung Limited*	Mr HUNG Pi Cheng Benjamin, JP Executive Director and Chief Executive Officer Standard Chartered Bank (Hong Kong) Limited	Prof Yingyi QIAN Dean School of Economics and Management Tsinghua University
Ms Umran BEBA SVP & Chief Human Resources Officer Pepsi-Cola International Ltd.	Prof Dipak C. JAIN The INSEAD Chaired Professor of Marketing INSEAD	Mr Sukanto TANOTO Chairman RGE Pte Ltd
Prof Sally BLOUNT Dean Kellogg School of Management Northwestern University	Mr Hans Michael JEBSEN, BBS Chairman Jepsen & Co. Ltd.*	Mr James E. THOMPSON, GBS Chairman Crown Worldwide Holdings Ltd.*
Mr Louis McDaniel BOWEN Chairman and Chief Executive Officer Asia Capital Management Limited and China Advisors Limited*	Mr Keith KERR, JP Chairman The Development Studio Ltd*	Mr Andy TUNG Chief Executive Officer Orient Overseas Container Line Ltd.
Mr CHEAH Cheng Hye Chairman and Co-Chief Investment Officer Value Partners Group Ltd	Dr Jack LAU Chairman, CEO and Director Perception Digital Holdings Limited	Dr WONG Chi-Yun Allan, GBS, MBE, JP Chairman and Group Chief Executive Officer VTech Holdings Limited
Mr Philip CHEN, GBS Managing Director Hang Lung Properties	Prof Hau L. LEE Thoma Professor of Operations Information and Technology Stanford Graduate School of Business	Dr Rosanna WONG Yick-ming, DBE, JP Executive Director The Hong Kong Federation of Youth Groups
Mr CHOW Man Yiu, Paul, SBS, JP Chairman Hong Kong Cyberport Management Company Limited	Mrs Margaret LEUNG, SBS, JP Deputy Chairman and Managing Director Chong Hing Bank Ltd	Mr WOO Chun Kuen Douglas Chairman and Managing Director Wheelock and Company Limited
Mr David L. CUNNINGHAM Jr President Asia Pacific Division, FedEx Express	Mr LIU Sing-Cheong, JP Chairman My Top Home (China) Holdings Limited*	Mr Thomas Jefferson WU Managing Director Hopewell Holdings Limited
Mr Eric FOK Kai Shan Vice President Fok Ying Tung Group	Dr Vincent H. S. LO, GBS, JP Chairman Shui On Holdings Limited	Mr YUEN Kwok Hang Arthur, JP Deputy Chief Executive Hong Kong Monetary Authority
Dr FU Yuning Chairman China Resources	Mrs Noelle LU Executive Director Greenhill Investments Ltd	Mrs Betty YUEN SO Siu Mai Vice Chairman CLP Power Hong Kong Ltd.
Ms Wendy GAN Executive Director Pacific Century Premium Developments Limited	Mr Anthony NIGHTINGALE Director Jardine Matheson Holdings Ltd	Mr Shengman ZHANG Chairman, Asia Pacific Citi

* Board Member of the Council

SCHOOL OF HUMANITIES AND SOCIAL SCIENCE ADVISORY COMMITTEE		
Prof Angela Ki Che Leung Chair Professor of History Joseph Needham-Philip Mao Professor in Chinese History, Science & Civilization Hong Kong Institute for the Humanities and Social Sciences The University of Hong Kong	Prof Kenneth Pomeranz Department Chair University Professor of Modern Chinese His- tory and in the College University of Chicago	Prof Yunxiang Yan Professor Department of Anthropology UCLA
Prof Lydia Liu Wu Tsun Tam Professor in the Humanities Professor of Chinese and Comparative Literature Columbia University	Prof Andrew Walder Denise O'Leary and Kent Thiry Professor Department of Sociology Stanford University	

INTERDISCIPLINARY PROGRAMS OFFICE ADVISORY BOARD

Prof Yue Chee Yoon

Associate Provost (Graduate Education)
President's Office
Nanyang Technological University

Prof Arup K Chakraborty

Robert T Haslam Professor of Chemical
Engineering
Professor of Chemistry, Professor of Physics
Professor of Biological Engineering
Director, Institute for Medical Engineering
and Science
Massachusetts Institute of Technology
(Chair of the Advisory Board of the HKUST
Division of Biomedical Engineering)

Prof Peter Brimblecombe

School of Environmental Sciences
University of East Anglia
(Chair of the Advisory Board of the
HKUST Division of Environment)

APPENDIX IV: FINANCE

OVERVIEW

Year 2013/14 was the second year after the 4-year undergraduate system was launched. It ended with a surplus of \$602 million (\$878 million for 2012/13). Investment returns amounted to \$562 million (\$318 million for 2012/13) mainly generated from the University's enlarged investment portfolio managed by investment managers in accordance with the University's laid down investment strategies. With less matching grant available, donations and matching grants were down to \$105 million (\$543 million for 2012/13).

CONSOLIDATED INCOME AND EXPENDITURE

Consolidated income slightly increased to \$4,198 million for the year (\$4,191 million for 2012/13) as a result of the favourable investment returns, additional earmarked/supplementary grants from UGC/Government, and an increase in tuition fee income but offset by the decrease in donations and matching grant income.

Consolidated expenditure for the year increased to \$3,604 million (\$3,316 million for 2012/13) mainly due to additional staffing and other resources for supporting the increased student enrollment population, the enlarged campus and increased research activities.

SEGMENT RESULTS

University Grants Committee ("UGC") Block Grant-funded Activities

The University continued to put in the planned additional resources on staffing and other required facilities for operation of the 4-year undergraduate program. The surplus of \$126 million has been transferred to and retained in the General and Development Reserve for future use.

Self-Financing Continuing Professional Education Programs ("CPEP"), Research and Other Activities

Primarily due to the favourable investment returns generated from accumulated reserve funds, overall surpluses of these operating segments for the year increased to \$204 million (\$134 million for 2012/13).

Donations and Related Activities

This segment recorded a surplus of \$272 million (\$596 million for 2012/13), as a result of lower donations and matching grant income, partly off-set by an increase in investment returns. Had the operating results of the donation activities segment been removed from the other segments, the year-on-year variance in the consolidated operating result would be a favourable \$48 million (surplus of \$330 million for 2013/14 vs surplus of \$282 million for 2012/13) instead of an unfavourable \$276 million (surplus of \$602 million for 2013/14 vs surplus of \$878 million for 2012/13).

CAPITAL EXPENDITURE

The Research and Academic Building completed in September 2014 will further enhance the University's teaching and research facilities. Other in-progress construction projects include the Conference Tower, new on-site student residence and off-campus joint student hostel in Tseung Kwan O.

As at 30 June 2014, the total commitments for the approved construction projects and other capital items amounted to \$1,333 million: \$786 million of which will be supported by approved but yet to be received UGC grants, \$19 million by pledged donations and the rest by the University's reserves and deferred income on hand.

OUTLOOK

After completion of the 6th Matching Grant Scheme, the University foresees challenges in fund raising activities in the coming year. The University will continue to proactively manage its financial position and ensure adequate resource allocation in supporting the University's strategic initiatives and operation plans.

CONSOLIDATED BALANCE SHEET

As at 30 June 2014

	2014 \$million	2013 \$million
Non-Current Assets		
Property, Plant and Equipment	4,551	4,361
Intangible Assets	21	34
Held-to-Maturity Financial Assets	108	113
Available-for-Sale Financial Assets	19	18
Financial Assets at Fair Value through Profit or Loss	4,295	2,853
Interest in an Associate	66	61
Interest in a Joint Venture	0	0
	9,060	7,440
Current Assets		
Held-to-Maturity Financial Assets	5	908
Inventories	1	1
Accounts Receivable and Prepayments	257	331
Bank Deposits with Original Maturity over Three Months	1,375	700
Cash and Cash Equivalents	787	1,323
	2,425	3,263
Current Liabilities		
Accounts Payable and Accruals	547	518
Provision for Staff Benefits	154	141
Deferred Income	604	559
Tax Payable	2	2
	1,307	1,220
Net Current Assets	1,118	2,043
Total Assets Less Current Liabilities	10,178	9,483
Non-Current Liabilities		
Provision for Staff Benefits	22	19
NET ASSETS	10,156	9,464
Capital Reserves		
UGC Block Grant Reserves	1,255	1,125
Donations and Matching Grants Reserves	2,811	2,625
Other Reserves	1,513	1,315
Investment Revaluation Reserve	5	4
TOTAL FUNDS	10,156	9,464

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

For the year ended 30 June 2014

	2014 \$million	2013 \$million
Income		
Government Subventions and Grants	2,081	2,155
Tuition, Programmes and Other Fees	948	882
Interest and Investment Income	562	318
Donations and Benefactions	84	344
Auxiliary Services and Other Income	324	299
Transfers from Capital Reserves	199	193
	4,198	4,191
Expenditure		
Learning and Research		
Instruction and Research	2,257	2,107
Library	99	94
Central Computing Facilities	111	103
Other Academic Services	88	80
	2,555	2,384
Institutional Support		
Management and General	215	196
Premises and Related Expenses	567	516
Student and General Education Services	237	189
Other Activities	30	31
	1,049	932
	3,604	3,316
Surplus from operation for the year	594	875
Share of Result of an Associate	8	3
Surplus for the year before taxation	602	878
Taxation	0	0
Surplus for the year after taxation	602	878
Other comprehensive income / (loss) for the year		
Items that may be reclassified subsequently to income and expenditure:		
Unrealised gain on Available-for-Sale Financial Assets	1	1
Transfer from Capital Reserves to consolidated statement of comprehensive income	(199)	(193)
Exchange differences arising from retranslation	(1)	5
	(199)	(187)
Total comprehensive income for the year	403	691
Transfers to / (from):		
Capital Reserves	(201)	(188)
University Grants Committee ("UGC") Block Grant Reserves	126	148
Donations and Matching Grants Reserves	273	594
Other Reserves	204	136
Investment Revaluation Reserve	1	1
	403	691







香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

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