

建設與環境



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

FACULTY OF CONSTRUCTION AND ENVIRONMENT
建設及環境學院

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Opening Minds • Shaping the Future

啟迪思維 • 成就未來

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Dean's Message

院長的話



June 2018 marks the end of a 3-year period covered by the Faculty of Construction and Environment's (FCE) Strategic Plan for 2015/16 to 2017/18. We have accomplished much in the last three years: recruiting and retaining quality staff; refining our undergraduate programmes and divesting ourselves of those that were self-financed; investing in our research infrastructures; working on

high-impact multi-disciplinary research projects; engaging with the nation; speeding up internationalization; scaling up knowledge transfer etc. All these efforts were made with one goal in mind: to have a positive impact on society. We have remained true to our raison d'être of existing for the benefit of mankind.

In terms of our standing in the latest QS World University Rankings, we have maintained respectable positions for the subjects of Civil and Structural Engineering as well as Architecture/ Built Environment. Our achievements in these and other areas have put us in the spotlight. We were in our best forms for the visits of some senior officials, from the Secretary for the Environment to the members of the University Grants Committee to representatives of the PolyU Council. It was a great honour indeed to meet each and every one of them and to have had the opportunity to introduce FCE to them. I would be remiss if I do not include here the visit of PolyU's President and Deputy President to our Department of Land Surveying and Geo-Informatics (LSGI) earlier this year. Our guests have all given us their support and encouragement by taking time out from their busy schedules to visit us.

We have continued to rake in external research grants from various sources, strengthening our research capacities while supporting a new generation of researchers with postdoctoral and PhD fellowships. We take immense pride in the achievements of our staff and students, who have won many prestigious awards, including the conferment of a University Fellowship to a former student. In addition, several international conferences and symposiums have been held, attracting many international scholars to our campus.

Looking ahead, we will be implementing FCE's Strategic Plan for 2018/19 to 2020/21, in line with PolyU's new vision and plans for 2018/19 to 2023/24. With your support, we will go from strengths to strengths and thrive in the years to come.

Ir Prof. You-Lin Xu
Dean of Faculty of Construction and Environment
Yim, Mak, Kwok & Chung Professor in Smart Structures
Chair Professor of Structural Engineering
The Hong Kong Polytechnic University

建設及環境學院制定的2015/16至2017/18三年策略性規劃，於2018年六月結束。三年來，從招聘及挽留人材、改良學士課程及縮減自資課程、投資科研基建、進行具影響力的跨領域研究、融入國家、加快國際化，以至促進知識轉移，我們均有不俗成績。推行以上各項措施時，我們不忘初心，時刻以造福社會、勵學利民為目標。

在最新公佈的QS世界大學排名榜中，我們在「土木及結構工程」與「建築/建造環境」兩個學科同樣保持佳績。期內，我深感榮幸能接待先後到訪本院的環境局局長、大學教育資助委員會成員、理大校董會代表等，向他們展示我們多方面的卓越成就。不得不提的，當然還有理大校長及副校長今年較早時到訪土地測量及地理資訊學系。眾位來賓在百忙中抽空到訪，對我們已是莫大的支持與鼓勵。

近年本院獲得的各類校外研究經費有增無減，這不僅壯大了學院的研究實力，年輕一代的博士生及博士後研究員獲益尤多。另外，我們的同事和學生獲獎連連，最近便有一位校友獲授大學院士榮銜。他們的傑出成就，令我們與有榮焉。三年來，我們亦舉辦了數項國際會議及研討會，與會的國際學者不計其數。

展望未來，我們將貫徹執行學院的2018/19至2020/21策略性規劃，以配合理大2018/19至2023/24年度的新目標及計劃。有你們的支持，我們必將再接再勵，再創高峰，前景一片光明。

徐幼麟教授工程師
香港理工大學建設及環境學院院長
嚴、麥、郭、鍾智能結構教授
結構工程講座教授

Awards & Achievements

優秀學者 成績斐然

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QS World University Rankings by Subject 2018

In the Quacquarelli Symonds (QS) World University Rankings by Subject 2018, the Faculty of Construction and Environment (FCE) has 2 disciplines in the top 20. The ranking for Civil and Structural Engineering was the same as last year in 10th place, and the ranking for Architecture/ Built Environment was in 19th place. In Hong Kong alone, PolyU is the only local university in the top 10 for the subject of Civil and Structural Engineering, and only the second local university to be within the top twenty for the subject of Architecture/ Built Environment. Both these subject areas are well represented by the academic expertise in the Faculty of Construction and Environment (FCE).

Launched in 2011, the annual QS World University Rankings by Subject is a comprehensive guide to a range of subjects. The rankings highlight the world's top universities in 48 subjects, based on academic reputation, employer reputation, and research impact.

2018年QS世界大學分科排名

根據最近公佈的2018年QS世界大學分科排名榜，建設及環境學院有兩個學科晉身二十強之列：土木及結構工程學仍然緊守去年的第十位，建築/建設環境學則排名第十九。理大是唯一在土木及結構工程範疇躋身全球十大，以及第二所在建築/建設環境學排名頭二十的本地大學，而這兩個學科的專家，大部分均為建設及環境學院學者。

QS世界大學分科排名榜始於2011年，根據學術聲譽、僱主口碑及科研影響力三大準則，在四十八個學科選出全球最頂尖的大學，每年公佈一次，非常全面。



The 12th Guanghua Engineering Science and Technology Award

Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE), was honoured with the 12th Guanghua Engineering Science and Technology Awards from the Chinese Academy of Engineering (CAE) on 30 May 2018 in Beijing. The biennial national awards were established in 1996 to reward Chinese engineers and scientists who have made outstanding achievements and important contributions to engineering technology and engineering management. This is the second time that candidates from Hong Kong, Macau and Taiwan were considered in the selection process.

Internationally recognized for his contributions in wind engineering, structural vibration control and structural health monitoring, Prof. Xu was nominated by the Hong Kong Academy of Engineering Sciences (HKAES), the only organization appointed by the CAE for nominating candidates from the HKSAR region. He was warmly congratulated by Prof. Timothy W. Tong, President of HKAES and PolyU, who hopes other faculty members can emulate the exemplary example set by Prof. Xu.

中國工程院第十二屆「光華工程科技獎」

建設及環境學院院長兼結構工程講座教授徐幼麟教授最近榮獲中國工程院第十二屆「光華工程科技獎」，頒獎禮2018年5月30日於北京舉行。「光華工程科技獎」為兩年一度的國家級獎項，旨在表揚在工程科技及工程管理範疇具卓越成就和重要貢獻的中國工程師和科學家。獎項於1996年成立，上一屆首度將香港、澳門和台灣的科學家納入評選範圍。

在風力工程、結構振動控制和結構健康監測領域貢獻良多的徐幼麟教授，享譽國際。香港工程科學院院長兼香港理工大學校長唐偉章教授衷心祝賀獲獎的徐教授，希望他會繼續竭盡所能，進一步開拓知識領域，造福社會、國家以至世界，並為業界同儕樹立典範。



CEE Scholar Received State Technological Innovation Award

For his pioneering research to turn waste into eco-friendly construction materials, Prof. Chi-sun Poon of the Department of Civil and Environmental Engineering (CEE) was awarded the Second Class Prize of the State Technological Innovation Award, part of the State Science and Technology Awards 2017 that was conferred in Beijing on 8 January 2018. The award is among China's highest and most esteemed national honours in science.

His mainland collaborators included Shenzhen University's Feng Xing and Shi Cong Kou as well as Shenzhen-based Huawei Green Building Material Co. Ltd.'s Zheng Song Yang, Wen Long Li, and Yu Guan.



土木及環境工程學系學者獲國家技術發明獎

土木及環境工程學系潘智生教授的研究項目建築廢棄物再生骨料關鍵技術及其規模化應用，榮獲國家技術發明獎二等獎(2017年度國家科學技術獎之一)。獎項於2018年1月8日在北京頒授，是中國最受尊崇和最高級的科學榮譽獎。

潘教授的研究團隊包括深圳大學的邢鋒和寇世聰，以及深圳市華威環保建材有限公司的楊正松，李文龍和關宇。



HKIE Gold Medal for BSE Academic

For his significant contributions in teaching, research and consultancy services related to the science of fire engineering and building services engineering for more than three decades, Prof. Wan-ki Chow, Chair Professor of Architectural Science and Fire Engineering and former Head of the Department of Building Services Engineering (BSE), was recently awarded the 2018 Gold Medal from the Hong Kong Institution of Engineers. The prestigious award recognizes the achievements and contributions made by an outstanding member to his/ her fields of engineering.

A Fellow of the Hong Kong Academy of Engineering Sciences since December 2012, he was appointed Justice of the Peace by the Chief Executive of the HKSAR Government in July 2013. He received a Lifetime Contribution Award from the Asia-Oceania Association for Fire Science and Technology in October 2015.

Prof. Chow has written more than 1,000 scholarly articles, with over 300 published in SCI international journals. The number of research students who have received their PhD under his guidance exceeds 60.

香港工程師學會榮譽大獎2018



為表揚周允基教授對建築科學與消防安全工程領域的理論、實驗模擬以及實際工程應用方面過去三十多年的重大貢獻，香港工程師學會最近向周教授頒發香港工程師學會榮譽大獎2018。周允基教授工程師為香港理工大學屋宇設備工程學系建築科學及消防工程講座教授，亦是前任屋宇設備工程學系系主任。香港工程師學會榮譽大獎在工程界舉足輕重，旨在表彰傑出成員在其工程領域所取得的成就和貢獻。

周教授工程師於2012年12月當選為香港工程科學院院士，現為香港工程師學會及眾多工程專業團體資深會員。及後又於2013年7月獲香港特區政府委任為非官守太平紳士，及2015年10月獲亞太區火災科學及技術協會頒授終身貢獻獎。

周教授工程師已發表1,000多篇學術論文，其中超過300篇發表在科學引文索引(SCI)引用的國際學術期刊上。在他的指導下，已有超過60位博士生順利畢業並取得建築科學及消防工程方面的博士學位。

Outstanding Professional Services Awards 2017

At the presentation ceremony for the Outstanding Professional Services Awards on 2 March 2018, several academics from the Faculty of Construction and Environment (FCE) and 2 of its departments were honoured by PolyU's Technology and Consultancy (PTeC) Co. Ltd. for their consultancy activities. Following a toast to all the winners, departmental and individual awards were presented by Dr Miranda Lou, Executive Vice President of PolyU and Chairman of PTeC, while team awards were presented by Ir Prof. Alex Wai, Vice President (Research Development).

The winner for the Maximum Staff Participation Award was the Department of Civil and Environmental Engineering (CEE), with the Department of Land Surveying and Geo-Informatics (LSGI) receiving a Merit Award in the same category. CEE also won a Merit Award in the category of Most Active Department in terms of aggregate invoiced value of its consultancy projects undertaken via PTeC.

Prof. Shengwei Wang of the Department of Building Services Engineering (BSE) received a Merit Award in the category for Most Active Consultant, while Dr Dan Tsang and Prof. Chi-sun Poon of the Department of Civil and Environmental Engineering (CEE) also received a Merit Award in the Most Valued Project category. The winners for the Multi-departmental Participation Award were Prof. Kwok-Fai Chung of the Department of Civil and Environmental Engineering (CEE) and Prof. Michael Yam of the Department of Building and Real Estate (BRE).

2017 年傑出專業服務獎

理大科技及顧問有限公司(PTeC)於2018年3月2日舉行「2017年傑出專業服務獎」頒獎典禮，建設及環境學院轄下兩個學系及數位學者均憑卓越的顧問服務獲得嘉許。祝酒儀式後，理大行政副校長兼PTeC主席盧麗華博士旋即頒獎予脫穎而出的學系及個人獎得主，副校長衛炳江教授工程師(科研發展)則負責頒發團隊獎項。

在「最多員工參與獎」組別，土木及環境工程學系與土地測量及地理資訊學系分別稱冠及獲得優異獎；在以學系透過PTeC承接顧問項目總值為評審標準的「最活躍學系獎」組別，土木及環境工程學系更再下一城，奪得優異獎。

個人獎項方面，屋宇設備工程學系的王盛衛教授榮獲「最活躍顧問」優異獎；土木及環境工程學系的曾超華博士及潘智生教授則於「最有價值項目」組別奪得優異獎。另外，土木及環境工程學系的鍾國輝教授與建築及房地產學系的任志浩教授亦雙雙成為「跨學系參與獎」得主。



2018/19 HK PhD Fellowship Winners

The Faculty of Construction and Environment (FCE) is pleased to have the following winners of the HK PhD Fellowship for 2018/19:

2018/19 年度香港博士研究生獎學金計劃

本院深感榮幸有七位在2018/19年度入讀本院的研究生，獲特區政府研究資助局的「香港博士研究生獎學金計劃」資助，詳情如下：

Dept 學系	Awardee 獎學金得主	Nationality 國籍	Chosen Programme 首選課程	Supervisor 導師
BRE	Alex Torku	Ghanaian 加納	Construction and Real Estate Management 建築及房地產管理	Prof. Albert Chan 陳炳泉教授
BRE	Ibrahim Yahaya Wuni	Ghanaian 加納	Construction and Real Estate Management/ Construction and Real Estate Economics 建築及房地產管理 / 建築及房地產經濟	Prof. Geoffrey Shen 沈岐平教授
BSE	Mohamed Anwar Orabi	St. Kitts and Nevis	Building Safety and Resilience 屋宇安全及恢復力	Prof. Asif Usmani
CEE	Ghazanfar Ali Anwar	Pakistan 巴基斯坦	Structural Engineering 結構工程	Dr You Dong 董優博士
CEE	Dachi Chen 陳大馳	Chinese 中國	Construction and Transportation 建築與運輸	Prof. William Lam 林興強教授

LSGI	Tahir Saeed	Pakistan 巴基斯坦	Photogrammetry and Remote Sensing 遙感科學與技術	Dr Charles Wong 黃文聲博士
LSGI	Naeem Shahzad	Pakistan 巴基斯坦	Photogrammetry and Remote Sensing/ Geographic Information Systems 遙感科學與技術／地圖學與地 理資訊系統	Prof. Xiaoli Ding 丁曉利教授

Established in 2009 by the Hong Kong Research Grants Council, the HK PhD Fellowship Scheme provides an annual stipend of HK\$240,000 and a conference/research-related travel allowance of \$10,000 per year to each awardee for up to three years. In addition, PolyU will award those with a four-year normal study period the same provision during their fourth year of study. All PhD Fellowship awardees receive a tuition scholarship for the entire normal study period.

該計劃於2009年推出，旨在吸引各地的優秀研究生來港修讀博士學位課程。獎學金主要以申請人的學術成績為評審準則，得獎者每年可獲二十四萬港元津貼及一萬港元的會議/研究活動交通津貼，為期三年。理大則會在常規的四年修課期內，於第四年向他們發放相同金額的資助。另外，所有博士生都可以在整個常規修課期內獲得助學金。

BSE Scholar Appointed to Editorial Board of Prestigious Journal

Ir Prof. Cheuk Ming Mak of the Department of Building Services Engineering (BSE) has been appointed to the editorial advisory board of *Building and Environment* since 1 December 2017. *Building and Environment* is an international journal that publishes original research papers and reviews articles related to building science, urban physics, and human interaction with the indoor and outdoor built environment. With an impact factor of 4.053 in the 2015 JCR, it is a top journal in the field of Construction & Building Technology. Its Editor-in-Chief is Prof. Qingyan Chen of Purdue University in the US.

屋宇設備工程學系學者獲委任著名期刊編委

2017年12月1日起，屋宇設備工程學系麥卓明教授工程師獲委任《建築與環境》編輯顧問委員會成員。《建築與環境》是一本發表原創研究論文及評論文章的國際期刊，內容圍繞建築科學、城市物理學、人類與室內外建築環境的互動。它在《期刊引用2015報告》中的影響系數為4.053，是建造與建築技術領域的頂級刊物，其主編是美國普渡大學陳清焰教授。

LSGI Scholar Appointed to Editorial Board of Top GNSS Journal

Dr George Zhizhao Liu of the Department of Land Surveying & Geo-Informatics (LSGI) has recently been appointed to the editorial board of *GPS Solutions*, a top Science Citation Index (SCI) journal in the field of Global Navigation Satellite Systems (GNSS) published by Springer-Verlag GmbH in Germany.

With an impact factor of 4.061 as of 2017, the highest one in the GNSS and related fields, *GPS Solutions* covers issues related to GNSS system design and a range of current and emerging applications of GNSS such as GPS, GLONASS, Galileo, Chinese Beidou and various augmentations.

Dr Liu has made significant innovations and contributions to the GNSS community. His pioneering method for GNSS carrier phase cycle slip detection and repair, a very fundamental issue for any high-precision GNSS applications, has been cited more than 120 times in the past few years and has been used worldwide by many groups. His research group was the world's first to investigate the anomalous phenomenon in the GPS receivers' recording of GPS satellite ionosphere coefficients, which has gone unnoticed in the GPS community for a few decades.

土地測量及地理資訊學系學者獲任命GNSS期刊編委

土地測量及地理資訊學系劉志趙博士近日獲任命一頂級科學引文索引期刊的編委，該期刊為全球導航衛星系統領域，由德國斯普林格出版社出版。

期刊在2017年的影響系數為4.061，是全球導航衛星系統及相關領域期刊中最高的，內容涵蓋與全球導航衛星系統的設計及一系列現有和新興應用（例如全球定位系統、格洛納斯系統、伽利略定位系統、北斗衛星導航系統等）相關的問題，期刊同時載於網站。

劉博士在全球導航衛星系統領域中貢獻重大，屢創佳績。他開創了載波相位周跳探測與修復的方法，這是所有相關應用要達到高精準度的關鍵。這方法在過去幾年被引用超過一百二十次，世界各地不同組織也採用。他的研究小組發現並研究了接收器記錄衛星電離層系數時出現之異常，一個數十年來在全球定位系統領域一直無人注意到的現象。

2017 HK Green Innovations Awards

The innovation of a self-cleaning transparent IR insulation glass coating by Dr Lin Lu of the Department of Building Services Engineering (BSE) has been honoured with a certificate of merit in the 2017 Hong Kong Green Innovations Awards (HKGIA). Organized by the Environmental Campaign Committee, the presentation ceremony was held on 4 May 2018 at the Hong Kong Convention and Exhibition Centre. Officiating guests were the Chief Executive, the Honourable Mrs Carrie Lam Cheng Yuet-ngor and the Secretary for the Environment, the Honourable Wong Kam-sing.

The HKGIA aims to encourage local organisations to tackle environmental challenges using new ideas that will benefit the environment. The three assessment criteria are level of innovation, environmental achievements and cost-effectiveness, and practicability and contribution to society.

2017 香港環保創意卓越獎



理大積極推動環保措施及管理。屋宇設備工程學系的呂琳教授成功研發自潔透明隔熱納米玻璃塗層，因而獲環境運動委員會頒發2017年「環保創意卓越獎」優異獎。頒獎儀式已於2018年5月4日假香港會議展覽中心舉行；當天的主禮嘉賓為行政長官林鄭月娥女士及環境局局長黃錦星先生。

University Fellowship Conferment Ceremony 2017/2018

A ceremony to confer the title of University Fellow to distinguished individuals who have contributed significantly to PolyU and the community was held at the Jockey Club Auditorium on 30 January 2018. Mr Kwok-fai Yau was one of the seven honorees this year. A 1990 alumnus of the Hong Kong Polytechnic, a predecessor of PolyU, Mr Yau has more than 20 years of experience in the construction industry and has been the Chief Executive Officer of Vantage International (Holdings) Limited since July 2000. In addition to establishing the Ko Jan Ming Endowed Professorship in Sustainable Structures and Materials with an HK\$8 million donation in 2015, Mr Yau has supported his alma mater generously. He also helped to establish the Yim, Mak, Kwok and Chung Endowed Professorship in Smart Structures in 2017, which is currently occupied by Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE).

2017/2018 年度大學院士頒授典禮

2018年1月30日在賽馬會綜藝館舉行了大學院士頒授典禮，榮銜授予對理大和社會作出重大貢獻的傑出人士。游國輝先生為今年七位得獎者之一。游先生是1990年香港理工學院(理大前身)校友，從事建造業逾廿載，自2000年7月起擔任盈信控股有限公司的行政總裁。他一直慷慨支持母校，於2015年捐贈八百萬港元成立高贊明可持續結構及材料教授席，2017年再成立嚴、麥、郭、鍾智能結構教授席。此勵學教授席目前由本院院長徐幼麟教授擔任。



Project Management Research Award for BRE Academics

A project entitled "An investigation of guaranteed maximum price and target cost contracting procurement strategies in the Hong Kong construction industry" has won a Project Management Achievement Award 2017 in the research category for 3 academics in the Department of Building and Real Estate (BRE). Led by Dr Daniel Chan, Associate Head (Teaching and Learning), the research team included Prof. Albert Chan, Head of BRE, and his colleague Prof. Patrick Lam. They received their award certificate in Melbourne at the Australian Institute of Project Management National Conference held on 24 October 2017.



建築及房地產學系學者獲頒項目管理研究大獎

建築及房地產學系三名學者憑著名為「香港建造業合約策略的調查——價格封頂和目標成本合約制」的研究項目贏得2017年度亞太區項目管理成就大獎(研究類別)。研究小組由副教授及副系主任(教務及學習)陳煒明博士領導，成員包括系主任陳炳泉教授和他的同事林俊業教授。他們在2017年10月24日於澳洲墨爾本舉行的澳洲項目管理學會全國會議上獲頒得獎證書。

Organized by the Asia Pacific Federation of Project Management, the awards are based on the quality of application submission and the practical outcomes of research projects conducted by academics in Hong Kong and the Asia Pacific region.

亞太區項目管理成就大獎由亞太區項目管理學會聯盟舉辦，以香港和亞太地區學者提交申請的研究項目質量及實際執行成效作為評審基礎。



Research Activities

研究薈萃

International Workshop on Photochemical Air Pollution

To get the first ever PolyU project supported by the Hong Kong Research Grants Council's (RGC) Theme-based Research Scheme off to a rolling start, a meeting cum international workshop was held on 7 and 8 February 2018. Nearly 50 researchers and academics involved in the project attended the workshop, which began with welcoming remarks from Prof. Alex Wai, Vice President (Research Development), and Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE). Keynote speeches on air pollution in China and air quality research were respectively delivered by Prof. Yuanhang Zhang, Academician of the Chinese Engineering Academy, and Dr Steven Brown of the NOAA Earth System Research Laboratory in the US. There were also invited speeches from Dr Kenneth Leung of the Environment Protection Department (EPD) of the Hong Kong Government and Prof. Xinming Wang of the Guangzhou Institute of Geochemistry of the Chinese Academy of Sciences before the principal investigator, Prof. Tao Wang of the Department of Civil and Environmental Engineering (CEE), and some of his collaborators Prof. Hai Guo (CEE), Dr Kin-fai Ho of the Chinese University of Hong Kong, Prof. Shuncheng Lee (CEE), Dr Zhe Wang (CEE), and Dr Fu Xiao (BSE) spoke on various aspects of the project.

The speakers on the second day of the workshop included Prof. Allen Zheng, Associate Director of the Institute for Environmental and Climate Research of Jinan University; Prof. Guy Brasseur of the Max Planck Institute in Germany; Dr Chun-ho Liu of the University of Hong Kong; a representative of Prof. Alexis Lau of the Hong Kong University of Science and Technology; and Dr Peter Louie of the EPD. The workshop facilitated a fruitful discussion of the implementation and management of the collaborative project.

光化學空氣污染國際研討會

理大首個獲香港研究資助局主題研究計劃支持的項目開始啟動，於2018年2月7至8日舉行了項目會議暨國際研討會，近50名項目研究人員和學者參與。副校長（科研發展）衛炳江教授和本院院長徐幼麟教授先後發表歡迎辭。中國工程院院士張遠航教授和美國海洋暨大氣總署地球系統研究實驗室Steven Brown博士分別作了有關中國空氣污染和空氣質量研究的主題演講。接著，由香港特區政府環境保護署梁啟明博士和中國科學院廣州地球化學研究所王新明教授發表演講。之後由項目統籌人，土木及環境工程學系講座教授王韜教授和部分合作研究員就項目整體研究任務分別發言，包括郭海教授、李順誠教授、王哲博士、肖賦博士和香港中文大學何建輝博士。

研討會第二天的發言人包括暨南大學環境與氣候研究院副院長鄭君瑜教授、德國馬克斯普朗克研究所Guy Brasseur教授、香港大學廖俊豪博士、香港科技大學劉啟漢教授代表和環保署雷國強博士。是次研討會就項目和合作開展了深入討論，富有成效，促進了合作項目的實施和管理。



EC/ RGC Collaboration Scheme 2017/18

Dr Daniel Tsang of the Department of Civil and Environmental Engineering (CEE) has been awarded \$1,993,916 from the European Commission/ Research Grants Council (EC/RGC) Collaboration Scheme. He will be conducting a holistic investigation of fate and behavior of emerging contaminants in complex environmental matrices with Prof. Stuart Harrad of the University of Birmingham for 33 months.

Germany/ HK Joint Research Scheme 2017/18

2 academics in the Faculty of Construction and Environment (FCE) have been awarded funding for their projects from the Research Grants Council's Germany/ Hong Kong Joint Research Scheme 2017/18. Dr Hsi-hsien Wei of the Department of Building and Real Estate (BRE) was awarded \$85,800 for a project entitled "Assessing and Managing Risk-based Resilience to Climate-change-related Flood Risk in Hong Kong." His co-investigator is Prof. Scheffran Jurgen of the University of Hamburg. Another FCE colleague, Dr Wei Yao of the Department of Land Surveying and Geo-Informatics (LSGI), was awarded \$71,500 to work on a 2-year project entitled "Construction Site Monitoring Based on 3D Point Clouds Mapped by Different Platforms and Sensors" with Prof. Stilla Uwe of the Technical University of Munich.

Ford Foundation Grant for BRE Researcher



Dr Ivy Wong of the Department of Building and Real Estate has received a US\$150,000 grant from the Ford Foundation for her action-oriented study of community planning and self-governance capacity building for the emerging urban communities in periurban China. Her co-principal investigators are of the University of Hong Kong and of

Renmin University of China. Their 2-year project aims to (1) develop a framework for comprehending the institutional complexities of community governance in the evolving rural-turned-urban neighbourhoods in periurban China; and (2) develop a toolbox for transferring knowledge about community planning and capacity building to key decision-makers in these neighbourhoods, as well as building the capacities of local residents (both indigenous villagers and rural migrants) to better manage their rapidly changing neighbourhoods.

2017/18 年度歐洲委員會與研資局合 作計劃

土木及環境工程學系的曾超華博士最近喜獲「歐洲委員會與研資局合作計劃」撥款一百九十九萬三千九百一十六元。他將夥拍伯明翰大學的Stuart Harrad教授，開展為期33個月的項目，全面研究新興污染物在複雜環境介質中的轉化與行為。

2017/18 德國 / 香港合作研究計劃

本院兩名學者獲得研究資助局德國/香港合作研究計劃的資助。建築及房地產學系魏希賢博士題為基於風險復原力之氣候變遷下洪災對香港之影響評估的項目獲得85,800港元，他的共同研究員為漢堡大學的Scheffran Jurgen教授。本院另一位同事，土地測量及地理資訊學系姚巍博士則獲得71,500港元，與慕尼黑工業大學的Stilla Uwe教授進行為期兩年，題為基於不同平台和傳感器所獲取三維點雲的建築施工現場監測的項目。

福特基金會資助 BRE 研究員

建築及房地產學系黃小慧博士獲得福特基金會資助十五萬美元，研究中國城郊型社區的規劃和自治能力建設，項目注重理論和實踐相結合。聯合首席研究員包括香港大學鄧寶善教授和中國人民大學劉金龍教授。項目為期兩年，旨在(1)建立研究框架，以理解和分析中國城郊型社區在規劃和治理方面的複雜性；(2)開發工具箱，將有關社區規劃和自治能力建設的知識傳授給社區關鍵行動者，從而提升當地居民(原住民和農民工)的管理能力，以應對高速城市化帶來的挑戰。

ECF and ITF Funding for FCE Colleagues

The Faculty of Construction and Environment is pleased that the following colleagues have been awarded funding from the Environment and Conservation Fund (ECF) as well as the Innovation and Technology Fund (ITF). Following are the details:

本院同事獲 ECF 及 ITF 資助

本院同事喜獲環境及自然保育基金 (ECF) 和創新及科技基金 (ITF) 的資助，詳見下表：

PI (Dept) 項目統籌人(學系)	Project Title 項目名稱	Project Duration 項目周期	ECF Funding Approved (HK\$) 獲批 ECF 資助金額
Prof. Heng LI (BRE) 李恒教授	Construction Waste Sorting and Recycling Robot 建筑垃圾分類及回收機器人	36 months	1,987,360 (包括 50% 業界資助)
Dr Jian-guo DAI (CEE) 戴建國博士	Development of an Energy-Saving Coating System for Sustainable Building Envelope 可持續建築維護結構用節能塗層的開發	24 months	1,299,240
Dr Siu Kai LAI (CEE) 黎紹佳博士	Smart Noise Barriers/Enclosures for Dual Active and Passive Control of Construction Noise 應用智能隔音屏障(外殼)作雙重主動及被動的建築噪音控制	36 months	837,080
Dr Zhen LENG (CEE) 冷真博士	Value-Added Collective Recycling of Waste Plastic and Waste Tyre Rubber into Durable Asphalt Pavements 綜合利用再生廢棄塑料及廢棄輪胎橡膠修築耐久改性瀝青路面的生態友好方法	24 months	1,273,240
Dr Shao-yuan Ben LEU (CEE) 呂紹元博士	Incorporating Metabolites Based Organosolv Pretreatment in Reducing the Recalcitrant of Lignocellulosic Biomass to Saccharification in Food/Yard/Timber Waste Treatment Processes 研發生物代謝產有機溶劑以降低食物/園藝/木材廢棄物木質生物質醱解頑抗性之預處理技術	24 months	1,152,800
Dr Daniel Tsang (CEE) 曾超華博士	Enhancing Water Resilience with Blue-Green Infrastructure: A Pilot-scale Study on Bio-retention Systems for Storm-water Harvesting in New Development Areas 利用藍綠基礎設施提高新開發區的雨水收集回用先導研究	24 months	2,499,280

PI (Dept) 項目統籌人(學系)	Project Title 項目名稱	Category 資助計劃類別	Project Duration 項目周期	ITF Funding Approved (HK\$) 獲批 ITF 資助金額
Prof. Heng LI (BRE) 李恒教授	Enabling Technologies based on Computer Vision and Machine Learning for Better Quality Management on Construction Sites 基於計算機視覺與機器學習之施工品質管控使能技術研究	Innovation and Technology Support Programme 創新及科技支援計劃	24 months	\$11,126,897 (including \$3,488,597 in industry sponsorship)
Prof. Meng NI (BRE) Co-I 倪萌教授	Integrated System of Advanced Thermal Nano Technologies (TNT) for Energy-Efficient Air-Conditioning and Clean Indoor Air: Part 1 - Energy Efficiency 高能效空調和潔淨室內空氣的先進熱納米技術(TNT)集成系統：第一部分-能源效益	Innovation and Technology Support Programme 創新及科技支援計劃	24 months	\$1,039,200 (including 50% industry sponsorship)
Prof. Hongxing YANG (BSE) Co-I 楊洪興教授	Integrated System of Advanced Thermal Nano Technologies (TNT) for Energy-Efficient Air-Conditioning and Clean Indoor Air: Part 1 - Energy Efficiency 高能效空調和潔淨室內空氣的先進熱納米技術(TNT)集成系統：第一部分-能源效益	Innovation and Technology Support Programme 創新及科技支援計劃	24 months	\$1,039,200 (including 50% industry sponsorship)

Prof. Hongxing YANG (BSE) 楊洪興教授	Development of Novel Highly Dispersed and Self-Healing Transparent Heat Insulation Coatings Based on Tungsten Bronze for Application in Buildings 用於建築上基於鉍鎢青銅新型高分散自修復透明隔熱塗料的研究	ITF - Teaching Company Scheme	36 months	\$590,400 (\$270,000 from ITF and \$320,400 from a local company)
Dr Lin LU (BSE) 呂琳博士	Development of a Hollow Fiber Membrane-based Seawater Desalination System Driven by a Hybrid of Solar Energy and Heat Pump 太陽能熱泵聯合驅動的中空纖維膜海水淡化系統研究	Guangdong-Hong Kong Technology Cooperation Funding Scheme 粵港科技合作資助計劃	24 months	\$920,640 (including industry sponsorship of \$95,399)
Dr Jianguo DAI (CEE) 戴建國博士	Research and Development on Geopolymer Cement-based 3D Printing Technology for Modern Building Industry 基於地聚物水泥的3D打印技術在現代建築工業中的開發和應用	Innovation and Technology Support Programme 創新及科技支援計劃	18 months	\$1,472,850 (including industry sponsorship of \$140,000)
Prof. Chi-sun POON (CEE) 潘智生教授	Cementless Production of Lightweight Aggregates from Incineration Bottom Ash (IBA) and Concrete Slurry Waste 利用生活垃圾焚燒底灰和混凝土攪拌站灰漿廢棄物制備無水泥基輕質骨料的研究	Innovation and Technology Support Programme 創新及科技支援計劃	24 months	\$2,093,950 (including industry sponsorship of \$400,000)

Research Funding from Professional Services Advancement Support Scheme

A proposal to improve and export Hong Kong industrialized construction services under the Belt and Road initiative was awarded \$547,000 from the government's Professional Services Advancement Support Scheme. Led by Prof. Geoffrey Shen, Interim Vice President (Student Affairs) and Chair Professor of Construction Management in the Department of Building and Real Estate (BRE), the project includes Dr Justina Yung of PolyU's Belt and Road Liaison Unit and is supported by the Hong Kong Construction Association Ltd.

專業服務協進支援計劃

一項旨在於「一帶一路」框架下改善及出口香港工業化建築服務的計劃，已獲特區政府「專業服務協進支援計劃」撥款五十四萬七千元。此項目由理大暫任副校長(學生事務)暨建築及房地產學系建築管理學講座教授沈岐平教授主持，組員包括理大「一帶一路」聯絡室的翁海穎博士，並獲香港建造商會支持。

Public Policy Research Funding

The following two proposals have been supported by the government's Central Policy Unit.

公共政策研究資助計劃

特區政府中央政策組已落實對下述兩個項目的資助：

PI (Dept) 首席研究員 (學系)	Project Title 項目名稱	Project Duration 項目周期	Funding Approved (HK\$) 獲批資助金額
Dr Minchen WEI 魏敏晨博士 (BSE)	The Possibility of Reducing Illuminance Level by Using LED Lighting Products with High Colour Rendering Index for Energy Reduction in Green Buildings 利用高顯色指數的LED照明產品實現降低照度和建築照明能耗的可行性分析	12 months	\$306,691
Prof. Hai GUO 郭海教授 (CEE)	Clear up Toxic Smog and Improve Air Quality in Hong Kong 驅散毒霧，改善香港空氣質素	18 months	\$498,410

Funding Scheme for Thematic Research on Built Heritage Conservation

A project entitled "Integrated Approaches for Point-Line-Plane of Heritage Conservation in Hong Kong: International Experience" has been awarded \$1,951,550 from the funding scheme for thematic research on built heritage conservation. Led by Prof. Edwin Chan of the Department of Building and Real Estate (BRE), the 2-year project will review the "Point-Line-Plane" approach adopted in built heritage conservation and protection in other cities; identify the theories of "Point-Line-Plane" approach that could be applied to built heritage conservation and protection in Hong Kong; ascertain the key success criteria for delivery of the integrated "Point-Line-Plane" approach for different situations in Hong Kong and; develop an effective novel model for enhancing district-wide conservation and development utilizing the integrated "Point-Line-Plane" approach. Members of the research team include BRE colleagues Dr Esther Yung and Dr Michael Sing, Dr Hok-bun Ku of the Department of Applied Social Sciences, Dr Honggen Xiao of the School of Hotel and Tourism Management, Prof. Wei Hwa Chiang of National Taiwan University of Science and Technology, and Prof. Puay Peng Ho of the National University of Singapore.

保育歷史建築專題研究資助計劃

由建築及房地產學系陳漢雲教授主持、題為《從點、線、面的綜合角度看香港古蹟保育：國際經驗》的研究項目，最近喜獲「保育歷史建築專題研究資助計劃」撥款一百九十五萬一千五百五十元。研究旨在為香港歷史建築保育提供一套全面善用「點線面」的方案。數據採自國際和本地保育案例，實地研究，專家訪談和問卷調查等。多重標準評估模型的構建有助量化各種因素，並將保育範圍擴大為「點-線-面」所需要考慮的因素作全面演繹。這項研究最後會就如何在保育歷史建築上全面落實「點線面」應用作出多項建議。

研究團隊成員包括同系的容曉君博士及成振邦博士、應用社會科學系的古學斌博士、酒店及旅遊業管理學院的肖洪根博士、國立台灣科技大學的江維華教授，以及新加坡國立大學的何培斌教授。

PolyU Postdoctoral Fellowships Scheme 2017

5 academics in the Faculty of Construction and Environment (FCE) have recently been approved for funding from the PolyU Postdoctoral Fellowships Scheme 2017 to engage a postdoc fellow in their research for 2 years. Following are the details:

理大博士後研究資助計劃2017

在2017年度，建設及環境學院共有五位學術人員獲「理大博士後研究資助計劃」撥款資助，詳情如下：

Department 學系	Principal Investigator 首席研究員	PDF Candidate 博士後研究獎學金計劃申請人	Project Title 項目名稱
BSE	Dr Lin Lu 呂琳博士	Dr Guopei Li 李國培博士	A Novel Solar Energy Driven and Membrane-based Air Humidification-Dehumidification Desalination (MHDD) System 開發一種新型太陽能驅動的膜法空氣增濕除濕海水淡化系統
BSE	Prof. Hong-xing Yang 楊洪興教授	Dr Tian You 游田博士	Simulation Study on Energy Piles with Groundwater Advection Considering Various Actual Factors for Application of Ground Source Heat Pump Systems 用於地源熱泵系統中的地下滲流水環境下的能量樁各種實用參數的模擬研究
CEE	Prof. Xiang-dong Li 李向東教授	Mr Naiyi Yin 尹乃毅	Insight of Arsenic Metabolism by Human Gut Microbiota Upon in vitro Digestion of As(V)-bearing Metal Oxides 人體腸道微生物群在體外消化污染土壤時的砷代謝
CEE	Dr Dan Tsang 曾超華博士	Dr Dong-wan Cho	Metal-biochar Catalysts for High-efficiency Low-impact Wastewater Treatment and Soil Remediation 能提升廢水處理及土壤修復效率並降低對環境影響的金屬-生物炭催化劑
LSGI	Dr Wei Yao 姚巍博士	Dr Przemyslaw Polewski	Multifunctional Intelligent 3D Mapping for Environmental Informatics with Synergistic Remote Sensing Data 基於協同遙感數據的環境信息多功能智能三維測繪

FCE Postdoctoral Fellowships Scheme

A postdoctoral fellow was recently approved for funding in the FCE Postdoctoral Fellowships Scheme. Details are as follows:

FCE 博士後研究獎學金計劃

一位博士後研究員最近獲得本院博士後研究獎學金計劃的資助，詳情如下：

PI (Dept) 首席研究員 (學系)	PDF Candidate 博士後研究獎學金計劃申請人	Project Title 項目名稱	Source of Funding (HK\$) 資助來源
Prof. J.G. TENG (CEE) 滕錦光教授	Dr JIANG Cheng 蔣程博士	Eccentrically Loaded Concrete-filled Elliptical FRP Tubular Columns with Longitudinal Hybrid Bars 偏壓下配置縱向組合筋的複材管約束混凝土柱	CEE: \$ 100,421 FCE: \$ 100,421

Joint Supervision Scheme with Chinese Mainland, Taiwan, and Macao Universities 2017/18

The joint supervision of 7 PhD candidates in the Faculty of Construction and Environment (FCE) has recently been approved by PolyU. Following are the details:

2017/18 年度與中國內地、台灣及澳門大學合作的「聯合博士生指導計劃」

理大最近通過把建設及環境學院七名博士生納入「聯合博士生指導計劃」，詳情如下：

PolyU Supervisor (Dept.) 理大導師 (學系)	Student 學生	Supervisor (Univ.) 導師 (大學)	Project Title 項目名稱
Prof. Heng LI (BRE) 李恒教授	Jue LI 李珏	Prof. Hongwei WANG (Huazhong University of Science and Technology) 王宏偉教授 (華中科技大學)	Human Error Risk Analysis in Construction Projects: From a Cognitive Perspective 建設項目中的人因失誤風險分析：從認知的角度看
Prof. Eddie HUI (BRE) 許智文教授	Yue XIAO 肖月	Prof. Haizhen WEN (Zhejiang University) 溫海珍教授 (浙江大學)	Educational Facilities and Housing Price: Spatial Heterogeneity and Quantile Effect of Educational Capitalization 教育配套和住宅價格：教育資本化的空間異質性和分位數效應
Dr Lin LU (BSE) 呂琳博士	Yang LIU 劉洋	Prof. Youming CHEN (Hunan University) 陳友明教授 (湖南大學)	The Optical Performance of Nano-porous Aerogel Glazing Systems 納米多孔氣凝膠玻璃的光學表現
Prof. Wei CHU (CEE) 朱威教授	Xiaoxiao ZHANG 張笑笑	Prof. Zhonglin CHEN (Harbin Institute of Technology) 陳松林教授 (哈爾濱工業大學)	Formation Mechanism and Control of Halogenated Aldehydes during Chlorination of Water Sources Containing Natural Organic Matters 富含天然有機物水源水鹵代醛類形成機理和控制研究
Prof. C.S. POON (CEE) 潘智生教授	Weilai ZENG 曾維來	Prof. Yuxi ZHAO (Zhejiang University) 趙羽習教授 (浙江大學)	Reinforcement Corrosion and Cracks Propagation in Recycled Aggregate Concrete Modified with Different Methods 不同改性工藝下再生骨料混凝土內鋼筋鏽蝕與裂縫開展研究
Dr Yuhong WANG (CEE) 王予紅博士	Jindao CHEN 陳進道	Prof. Qian SHI (Tongji University) 施騫教授 (同濟大學)	Comprehensive Sustainability Evaluation of Green Infrastructures 綠色基礎設施可持續性綜合評價
Prof. Xiaoli DING (LSGI) 丁曉利教授	Xiaoqiong QIN 秦曉琼	Prof. Mingsheng LIAO (Wuhan University) (武漢大學)	Three-dimensional Bridge Deformation Monitoring by Integrating Observations from Multiple SAR Sensors 整合多源 SAR 傳感器監測橋梁三維形變

Head of LSGI Received Croucher Foundation Sponsorship of Conference

The Croucher Foundation has awarded a grant of HK\$100,000 to Prof. John Shi, Head of the Department of Land Surveying and Geo-Informatics (LSGI), in support of the 2nd International Conference on Urban Informatics to be held at PolyU from 10 to 12 December 2018. About 100 participants are expected to attend the conference.

土地測量及地理資訊學系系主任獲裘槎基金會資助舉辦國際會議

裘槎基金會已向土地測量及地理資訊學系系主任史文中教授撥出十萬港元，資助於2018年12月10至12日在理大舉辦第二屆城市資訊學國際研討會，預計屆時的與會者將多達一百人。

Workshop for Sub-Project Funded by MOST

A workshop for a sub-project funded by the Ministry of Science and Technology was held at PolyU's Shenzhen Research Institute from 6 to 7 December 2017. Attended by 55 academic and research personnel from more than 10 universities and organisations, the workshop was chaired by the sub-project leader, Prof. Hai Guo of the Department of Civil and Environmental Engineering. Overall introduction of the national key R&D project on the environmental risk management system of toxic and hazardous air pollutants in China was provided by of the Guangzhou Institute of Geochemistry. Sampling schedules for the sub-project were shown by, who received expert feedback from of Shanghai Academy of Environmental Sciences, of Shandong University, and of Sun Yat-Sen University.

Moreover, participants were trained to collect samples of ambient volatile organic compounds, oxygenated VOCs, persistent organic pollutants and heavy metals from various mainland cities and 10 sampling sites in the Pearl River Delta. The workshop got the sub-project off to a great start.

科學技術部資助子項目研討會

國家科學技術部資助子項目的研討會於2017年12月6至7日在理大深圳研究院舉行，出席者包括55名學者和研究人員，分別來自十多所大學和機構。研討會由子項目負責人、土木及環境工程學系郭海教授主持。廣州地球化學研究所張幹教授全面地介紹了國家重點研發項目——中國有毒有害空氣污染物環境風險管理體系。此外，呂效譜博士展示了子項目的抽樣方案，並得到上海市環境科學研究院陳長虹教授、山東大學薛麗坤教授和中山大學鄒世春教授的專家反饋。

此外，與會者接受了在各大城市和珠江三角洲十個採樣點採集環境揮發性有機化合物、含氧揮發性有機化合物、持久性有機污染物和重金屬樣本的培訓。子項目在是次研討會中順利地開展。



Staff Promotions

The Faculty of Construction and Environment (FCE) is pleased that the following academics have been promoted in July 2018. Following are the details:

From Associate Professor to Professor:



Prof. Mingli Chen, BSE

Prof. Chen got his BSc in Physics from Lanzhou University, China, in 1985, MSc in Atmospheric Science from the Chinese Academy of Sciences (CAS) in 1988, and PhD in Electrical & Electronic Information Systems from Gifu University in Japan in 2000. He embarked on his

academic career at the Lanzhou Institute of Plateau Atmospheric Physics of CAS in 1988, moving to the Department of Electrical & Electronic Engineering of Gifu University in late 1996 before joining PolyU's Department of Building Services Engineering (BSE) in January 2002.

Prof. Chen is an active researcher in the area of lightning physics and its effects, having engaged in 41 research projects funded by the CAS, the National Science Foundation, the General Research Fund (GRF) of the Hong Kong Government and PolyU. In particular, he has won 10 GRFs in the last ten years.

He has 65 refereed journal papers, 106 conference papers and 4 patented/patentable items to his credit. A paper reviewer for many journals, he has received numerous academic awards/prizes, including the Dean's Awards (2011, 2014 and 2017). In addition to supervising postgraduate students, he has also served as a member of the PolyU Senate, the Faculty Research Committee, the Appeal Tribunal Panel under the Buildings Ordinance of the HKSAR, and the Administrative Appeals Board etc.



Prof. Lin Lu, BSE

Prof. Lu has made a major and lasting impact on building science research and industry, with a focus on renewable energy technologies in buildings, fluid mechanics and heat/mass transfer related to building engineering, and green building nanomaterial development. Prof. Lu

has published over 140 SCI journal papers, resulting in an H-index of 31 in the Web of Science Core Collection and 10 highly cited papers by Web of Science. Her prolific research output has contributed significantly to PolyU's leading ranking in built environment engineering research. Her research findings have been adopted by researchers in over 60 countries and by the local government in its policy guidelines for renewable energy.

晉升之喜

建設及環境學院恭賀下述學者於2018年七月晉升新職，詳情如下：

副教授晉升為教授：

陳明理教授（屋宇設備工程學系）

陳教授1985年於中國蘭州大學物理本科畢業，1988年獲中國科學院大氣科學碩士資格，2000年取得日本岐阜大學電氣及電子信息系統博士學位，2002年一月加入理大屋宇設備工程學系前，曾任職中科院轄下的蘭州高原大氣物理研究所(1988年)，以及岐阜大學電氣及電子工程學系(1996年底)。

他積極鑽研閃電物理學及其影響，曾經參與四十一項獲中科院、國家自然科學基金、香港特區政府「優配研究金計劃」及理大撥款的科研項目，近十年十度獲得「優配研究金計劃」資助。

多年學術生涯中，陳教授發表了六十五份獲引述的學報論文及一百零六份會議論文，並已擁有/申請四項專利。他是不少學術期刊的審稿員，奪獎無數，三度榮獲「院長特設傑出表現/成就獎」(2011、2014、2017)。除擔任研究生的論文導師，他也是理大教務委員會、建設及環境學院研究委員會、特區政府上訴審裁團(建築物)、行政上訴委員會等的成員。

呂琳教授（屋宇設備工程學系）

呂教授專注研究可再生能源技術在建築物的應用、與建造工程有關的流體力學及熱傳/質傳，以及適用於環保建築的納米材料，對建築研究及業界影響深遠。她發表了逾一百四十份SCI期刊文章，在Web of Science核心合輯的H指數高達31，並於Web of Science發表了十份經常獲引用的論文。理大能在建築環境工程研究領域名列前茅，呂教授可謂居功不少。其研究成果已獲逾六十個國家的科研同仁採用，特區政府亦以之為可再生能源政策指引的基礎。

Since joining PolyU in 2006, Prof. Lu has successfully secured over 30 research grants (with the total amount of HK\$ 17 million) as PI, including over HK\$12 million in competitive external research funds. She has been the recipient of many prestigious awards, such as The Faculty Awards for Excellent Performance/Achievement 2017/2018 (Research and Scholarly Activities), the 2017 Hong Kong Green Innovations Award (HKGIA), the TechConnect 2017 Global Innovation Award (USA), a Special Merit Award (R. Alekseev Award) and a Gold Medal in 2017 from the 44th International Exhibition of Inventions of Geneva, the 2014 PolyU FCE Dean's Award for Outstanding Achievement in Research Funding, the Hong Kong Green Building Award 2014, a Silver Medal in 2012 from the 40th International Exhibition of Inventions of Geneva, the 2010 PolyU FCE Dean's Award for Outstanding Achievement in Research Funding, etc.



Prof. Jianguo Dai, CEE

Prof. Dai received his PhD in Structural Engineering from the Dalian University of Technology in 2000. He has another PhD in Socio-Environmental Engineering from Hokkaido University. After several years of industry experience in Japan, he joined PolyU in June 2008,

becoming an associate professor in July 2013 and then professor in July 2018.

Prof. Dai's main research area is innovative materials and structural systems for sustainable construction. Since joining PolyU, his research has attracted total funding of over HK\$24 million from the Research Grants Council General Research Fund, the National Science Foundation of China (NSFC), the Innovation and Technology Fund (ITF), the Environment and Conservation Fund (ECF), the Construction Industry Council (CIC) and other sources. He has authored more than 240 papers in academic journals and international conferences. His research has been recognized by a number of awards, including the Best Basic Research Paper Award from ASCE, *Journal of Composites for Construction*.

Prof. Dai is active in international research communities. At present, he is Chair of the Technical Board of Asian Concrete Federation (ACF), Vice President of the International Institution of FRP Composites for Construction (IIFC) and Vice Chair of FRP Application Committee of the China Society of Civil Engineering. He is editor of the SCI journal *Advances in Structural Engineering* and serves a few journals as an editorial board member and more than 50 journals as a referee.

自2006年加入理大後，呂教授以首席研究員身份取得三十餘筆科研撥款，總額高達一千七百萬港元，當中逾一千二百萬港元屬於須競逐的校外研究經費。多年來，她獲獎無數，如2017/2018建設及環境學院特設傑出表現/成就獎(科研及學術活動)、2017香港綠色創新大獎、美國TechConnect 2017環球創新獎、2017年第四十四屆日內瓦國際發明展特別獎(R. Alekseev獎)及金獎、2014院長特設傑出表現/成就獎(科研經費)、2014香港環保建築大獎、2012年第四十屆日內瓦國際發明展銀獎、2010年院長特設傑出表現/成就獎(科研經費)等。

戴建國教授(土木及環境工程學系)

戴建國教授除於2000年獲大連理工大學結構工程學博士學位，亦擁有北海道大學社會環境工程學博士資格，在日本有數年業界工作經驗。他於2008年六月加入理大，2013年七月晉升為副教授，2018年七月升任教授。

他主要研究適用於可持續土木建築的創新材料及結構系統，加入理大以來，其研究屢獲研資局「優配研究金計劃」、國家自然科學基金、特區政府創新及科技基金、環境及自然保育基金、建造業議會與其他機構資助，涉及的撥款總額超過二千四百萬港元。他勤於著作，在學術期刊及國際會議發表的論文超過二百四十份，研究成果亦多次獲得嘉許，包括奪得美國土木工程師學會刊物《建築複合材料學報》頒發的最佳基礎研究論文獎。

戴教授活躍於國際科研界，現任亞洲混凝土聯合會技術委員會主席、國際建築FRP複合材料學會副會長、中國土木工程學會FRP應用委員會副主席。另外，他還擔任SCI期刊《結構工程進展》的編輯，數份學報的編輯委員，以及逾五十份學術刊物的審稿員。

From Assistant Professor to Associate Professor:



Dr Henry Lee, CEE

Dr Po-Heng (Henry) Lee obtained his PhD from the Dept. of Civil, Construction, and Environmental Engineering from the Iowa State University, USA, in 2010. He received his MSc and BSc in Environmental Engineering from National Chiao Tung University and National Ilan

University in Taiwan in 2003 and 2001 respectively. Prior to joining the Hong Kong Polytechnic University in 2012, Dr Lee served as a full-time lecturer in the Dept. of Environmental Engineering at the Inha University, South Korea, from 2010 to 2012. His research emphasizes the biochemical processes for mining resources from wastewaters using computational thermodynamics and meta-omic approaches, especially in relation to fermentation, anaerobic digestion, and anaerobic ammonium oxidation (Anammox)-based processes.



Dr Zhen Leng, CEE

Dr Leng received his BEng in Traffic and Civil Engineering and MEng in Highway and Railway Engineering from Southeast University, China, and a PhD degree in Civil Engineering from the University of Illinois at Urbana-Champaign, USA. Before he joined the Hong

Kong Polytechnic University in 2012, he worked as a postdoctoral research associate at the Illinois Center for Transportation in the USA for one year. Dr Leng's research aims to improve the sustainability and cost effectiveness of pavement systems through material characterization and testing, numerical modeling, and application of nondestructive evaluation technologies. He has received several research awards, including the 1st Runner Up of 2017 HKIE Environmental Paper Award, the Sweet 16 High Value Research Award from the American Association of Highways and Transportation Officials in 2013, and the Innovative Research Award at the 52nd Annual Illinois Bituminous Paving Conference in the USA in 2011. His research has been supported by the Hong Kong Research Grants Council, the Environment and Conservation Fund, the Construction Industry Council, the Highways Department and the Environment Protection Department of the Hong Kong government. He currently serves as an associate editor for the *Journal of Cleaner Production* and *ASCE Journal of Transportation Engineering, Part B: Pavements*, and an editorial board member for *Road Materials and Pavement Design*, *Transportation Research Part D: Transport and Environment*, and the *International Journal of Pavement Research and Technology*. He is also a director of the ASCE Hong Kong Section, and a board member of the Hong Kong Society for Transportation Studies.

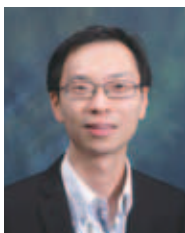
助理教授晉升為副教授：

李伯亨博士(土木及環境工程學系)

李博士2001年及2003年分別於台灣的國立交通大學與國立宜蘭大學修畢環境工程碩士及學士，2010年於美國艾奧瓦州立大學土木、建築及環境工程學系取得哲學博士學位，同年在南韓仁荷大學的環境工程學系擔任全職講師，直至2012年加入理大。他重點研究應用生物計算熱力學及理宏基因組學從廢水採收資源的生化過程，尤其是與發酵、厭氧消化，以及厭氧氨氧化有關的過程。

冷真博士(土木及環境工程學系)

冷真博士擁有中國東南大學交通及土木工程本科及道路與鐵路工程碩士學位，後負笈美國伊利諾大學香檳分校，取得土木工程博士資格，2012年加入理大前，曾於美國伊利諾運輸中心任職博士後研究員一年。他致力研究如何通過材料表徵及測試技術、數值建模及無損檢測技術，提升路面系統的可持續性及成本效益，曾數度獲獎，如2017香港工程師學會「環保論文大獎」亞軍、2013美國各州公路及運輸工作者協會Sweet 16高價值研究獎，以及2011年美國伊利諾州第五十二屆瀝青鋪路技術年會創新研究獎。香港的研究資助局、環境及保育基金、建造業議會，以至特區政府路政署及環境保護署，均曾資助其研究工作。冷博士現任《清潔生產學報》及美國土木工程師學會刊物《運輸工程學、乙部：路面系統》副主編，《道路物料及路面設計》、《運輸研究、丁部：運輸與環境》，以及《國際路面研究及科技學報》編輯委員會成員，並身兼美國土木工程師學會香港分會及香港交通研究學會理事。



Dr Wallace Lai, LSGI

Dr Lai is the leader of the BSc (Hons) Geomatics programme in the Department of Land Surveying and Geo-Informatics (LSGI), a visiting scientist of the Federal Institute of Material Research and Testing (BAM) in Berlin, Germany, and a technical assessor of the Hong Kong Accreditation Service of the government of Hong Kong. Trained as an engineer and with six years of practical experience in contracting and consulting, he has been teaching, researching and promoting the rationale 'Image before Diagnosis,' from medical imaging of human bodies to a city's man-made structures, in particular underground utilities. He uses a range of electromagnetic geophysical and nondestructive imaging methods, in particular ground penetrating radar and infrared thermography, and develops methodology, algorithms and inverse models. In his last six years at LSGI, he has established the first underground utility survey lab in the world, hosted the 16th International Conference on Ground Penetrating Radar in Hong Kong and was selected by the University Grants Committee as a finalist of its teaching award [early career]. He will continue to embed the rationale of 'Image before Diagnosis' in his teaching, research and service to the community.



Dr Charles Wong, LSGI

Dr Wong received both his PhD and MPhil in Remote Sensing and GIS in 2009 and 2005 respectively from the Hong Kong Polytechnic University (PolyU). He started his career at PolyU as an Assistant Professor in 2012 and became Associate Professor in 2018. He was a Fulbright scholar at the Earth System Science Interdisciplinary Center of the University of Maryland in College Park from 2006 to 2007. He received the Faculty Award for Outstanding Performance in Teaching (Team Award) in 2014/15 and 2016/17; and the Dean's Award for Outstanding Achievement in Research Funding in 2016. He has broad research interests related to the use of remote sensing in urban heat island effect, urban environmental quality, landslides, vegetation and ecosystems, spectral mixture analysis, aerosol retrieval and monitoring. He is the project leader of two inter-institutional projects, namely the Jockey Club Smart City Tree Management Project, and Augmenting Physical Learning Spaces with Location-based Services using iBeacon Technology for Engaging Learning Experiences, with a funding of HK\$32,280,000 and HK\$12,321,533 respectively.

賴緯樂博士(土地測量及地理資訊學系)

賴博士為該系測繪及地理資訊學(榮譽)理學士課程的課程主任、德國聯邦物料測試研究所客席科學家，以及香港認可處評審人員。身為合格的專業工程師，他在工程顧問行業有六年的實戰經驗，教學和研究時一直推廣「先造像、後診斷」的概念，深信這理論不僅適用於人體醫學檢查，亦可用於城市裡的人造結構，尤其是地下管線。他應用一系列電磁地球物理及無創造像技術(特別是透地雷達及紅外線熱成像像)，開發出各種方法、算法及逆模型；加入土地測量及地理資訊學系的六年裡，創立全球首個地下管線實驗室，在香港籌辦了第十六屆國際透地雷達研討會，並入圍大學教育資助委員會的傑出教學獎(新晉教學人員組別)。無論是教學、科研或服務社會，賴博士將繼續貫徹其「先造像、後診斷」的信念。

黃文聲博士(土地測量及地理資訊學系)

黃博士是理大校友，2005年及2009年分別獲頒授遙感及地理資訊系統哲學碩士及博士學位，2006至2007年在馬里蘭大學學院市分校的地球系統科學跨學科中心擔任富布賴特學人，2012年起於理大出任助理教授，2018年晉升為副教授。他服務理大期間多次獲獎，包括2014/15及2016/17年度的學院特設傑出教學獎(團隊)，以及2016年院長特設傑出表現/成就獎(科研撥款)，對於在城市熱島效應、城市環境質素、滑波(山泥傾瀉)、植被及生態系統、光譜混合分析、氣溶膠反演及監測等範疇應用遙感技術興趣濃厚。現時，他身兼「賽馬會智慧城市樹木管理計劃」及「通過 iBeacon 位置服務技術拓展學與教的學習空間」兩個聯合研究項目的負責人。兩者所獲的研究撥款分別為三千二百二十八萬港元及一千二百三十二萬一千五百三十三港元。

FCE Sharing Session on Major Review

On 24 May 2018, a sharing session was held by the Faculty of Construction and Environment (FCE) to acquaint its new academic staff with the upcoming major review of their performance in teaching, research, and services. All newly appointed assistant professors will be eventually evaluated in a major review that includes external assessment and applies to promotion/ conversion to regular terms of appointment. 36 FCE academics attended the event, the majority of whom were assistant professors and research assistant professors. They were welcomed by Prof. You-lin Xu, Dean of FCE, who was pleased that the session provided an opportunity for colleagues from different FCE departments to mingle and learn more about the achievements of one another. Sharing their successful experiences of the major review were 4 assistant professors, namely Dr Henry Lee and Dr Leng Zhen of the Department of Civil and Environmental Engineering (CEE), as well as Dr Wallace Lai and Dr Charles Wong of the Department of Land Surveying and Geo-Informatics (LSGI). In attendance were the 3 Associate Deans, Prof. Michael Yam (Teaching), Prof. Xiangdong Li (Research), Prof. Xiaoli Ding (Partnership), and 2 departmental heads, Prof. Albert Chan (BRE) and Prof. William Lam (CEE). The expectations of PolyU and the Faculty were fully conveyed in an interactive discussion towards the end. It was an inspiring session for all who attended.

建設及環境學院 Major Review 分享會

2018年5月24日，建設及環境學院為助理教授級的同事舉辦了一個分享會，講解即將進行的教學、科研及服務表現評核(major review)。按照這項評核的規定，全體新入職的助理教授最終都需要接受校外評審，以此作為晉升或轉以常規條件受聘的依據。三十六位本院同事出席了當天的活動，大部分為助理教授及助理教授(研究)。院長徐幼麟教授認為分享會讓本院轄下不同學系的同事有機會聚首一堂，多些了解彼此的成就。在會上與一眾同事分享成功經驗的四位助理教授，包括土木及環境工程學系的李伯亨博士及冷真博士，以及土地測量及地理資訊學系的賴緯樂博士和黃文聲博士。列席者有三位副院長任志浩教授(教務)、李向東教授(科研)、丁曉利教授(協作)，以及陳炳泉教授、林興強教授兩位系主任。同事從討論中清楚了解到大學與學院對他們的期望，無不感到獲益良多。



BSE Academic Re-appointed to Court of HKBU

Dr Ling-tim Wong of the Department of Building Services Engineering (BSE) has been re-appointed to the Court of the Hong Kong Baptist University (HKBU) for 2 more years by the government of the HKSAR. He has served as a member of the Court since January 2016. His new term began on 1 January 2018.

屋宇設備工程學系學者再次任命為浸大諮議會成員

屋宇設備工程學系王寧添博士獲香港特別行政區政府再次任命為香港浸會大學諮議會成員，任期為兩年。他自2016年1月起出任，新的任期由2018年1月開始。

BSE Scholars to Lead Solar Energy Society of Hong Kong

At the inaugural meeting of the Solar Energy Society of Hong Kong on 4 May 2018, Prof. Hongxing Yang and Dr Lin Lu of the Department of Building Services Engineering (BSE) have been respectively appointed as its first President and one of its Vice Presidents. Prof. Meng Ni of the Department of Building and Real Estate (BRE) is a council member of the Society. The aims of the Society are to popularize and promote solar energy technologies, maintain an effective platform for sharing solar energy knowledge and generate innovation on solar energy applications in Hong Kong.



屋宇設備工程學系學者出任香港太陽能學會要職

在香港太陽能學會於2018年5月4日召開的創會會議中，屋宇設備工程學系的楊洪興教授和呂琳博士分別成為創會會長及其中一位副會長；建築及房地產學系的倪萌教授亦晉身該會理事。學會的宗旨是在香港推廣太陽能技術，為共享太陽能專業知識搭建有效平台，以及研發創新的太陽能應用方案。

Long Service Award Ceremony

A presentation ceremony for the Long Service Awards was held at the Jockey Club Auditorium on 31 January 2018. Among those honoured were 6 staff from the Department of Building and Real Estate (BRE), 9 staff from the Department of Building Services Engineering (BSE), and 10 staff from the Department of Civil and Environmental Engineering (CEE). To be eligible for the Long Service Award, a staff must have served PolyU for at least 10 years. Staff members are also honoured after they have served 15, 20, 25 and 30 years.

長期服務獎表揚資深員工

理大於2018年1月31日在校園內的賽馬會綜藝館舉辦長期服務獎頒獎禮。在獲表揚的資深員工中，有六人來自建築及房地產學系，屋宇設備工程學系、土木及環境工程學系則分別有九人及十人獲獎。要取得長期服務獎，員工必須最少服務理大十年。另外，任職滿十五、二十、二十五或三十年的同事亦會獲得表揚。



Student News

學生消息

Outstanding Student Awards 2017

A presentation ceremony for the Outstanding Student Awards 2017 was held on 26 February 2018. Prof. Timothy W. Tong, President of PolyU, presented the certificates for the awards, which recognize the achievements of full-time final-year students who have excelled in both academic and non-academic pursuits during their studies. The Outstanding Student Award of the Faculty of Construction and Environment (FCE) went to Mr Dachi Chen, who also won a similar award from the Department of Civil and Environmental Engineering (CEE). Other FCE students receiving the Outstanding Student Award of a Department were Mr Ka Tsun Cheng of the Department of Building and Real Estate (BRE), Mr Chun Yin Kwok of the Department of Building Services Engineering (BSE), and Mr Yi Nok Lee of the Department of Land Surveying and Geo-Informatics (LSGI).

卓越學生獎 2017

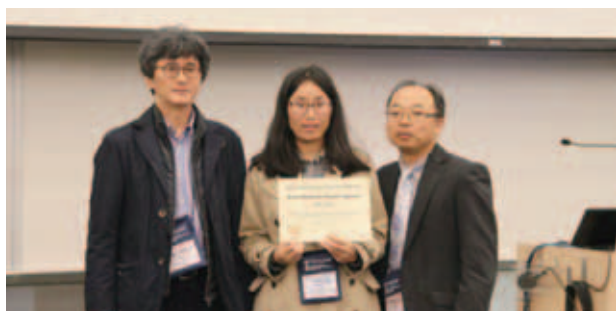
2017年卓越學生獎頒獎典禮於2018年2月26日舉行，理大校長唐偉章教授頒發獎項證書，表揚全日制最後一年學生於學習期間在學術和非學術領域追求佳績的努力。本院的「學院卓越學生獎」得主是陳大馳，他同時獲得土木及環境工程學系的「學系卓越學生獎」。其他「學系卓越學生獎」得主包括建築及房地產學系的鄭嘉浚、屋宇設備工程學系的郭真延，以及土地測量及地理資訊學系的李爾諾。



LSGI PhD Students Honoured at International Symposium GNSS 2017

At the International Symposium on Global Navigation Satellite Systems (GNSS) held on the PolyU campus from 10 to 13 December 2017, 2 PhD students from the Department of Land Surveying and Geo-Informatics, Ms Zhe Yang and Ms Huan Luo, were recognized for their work. Ms Yang's paper entitled "Post-processing Analysis of Ionospheric Scintillation Effects on RTK GPS Positioning at Low-Latitude Region" received the Best Student Paper Award, which came with a certificate and HK\$1,500. She is supervised by Dr George Liu. Ms Luo was honoured with the Best Student Poster Award of HK\$1,000 and a certificate for her work entitled "BLE and PDR integration for seamless positioning system under GNSS challenged environment". She is supervised by Prof. Wu Chen.

An Asian-Pacific conference focusing on GNSS technologies and applications, the annual event provides a platform for academia and industry to share and discuss new ideas and the latest developments. Approximately 180 participants from Asia, Australia, Europe, North America attended the Symposium, which consisted of 12 oral presentations and a poster session. More details of the Symposium are at <http://event.lsgi.polyu.edu.hk/ISGNSS2017/index.html>.



LSGI PhD Student Shines in Capacity-Building Workshop

From 13 to 17 November 2017, the International Reference Ionosphere Workshop was held in Taiwan to train young researchers in the basics of ionospheric monitoring and modelling, online databases of ionospheric ground and space data and web interfaces to ionospheric models. Ms Zhe Yang, a PhD candidate in the Department of Land Surveying and Geo-Informatics (LSGI), was chosen to attend with the financial support of the organizer, the Committee on Space Research of the International Council for Science. Not only did she meet other researchers from various countries, she also worked with 3 of them to investigate the ionospheric effects of the solar eclipse on 21 August 2017. Her presentation of their work was honoured with a Silver Prize on the last day of the workshop.

Supervised by Dr George Liu of LSGI, Ms Yang is finishing her PhD studies investigating ionospheric scintillations near the equatorial anomalous region using ground- and space-based ionospheric data.

LSGI 博士生在國際研討會上獲表彰

2017年12月10至13日在理大校園舉行的全球導航衛星系統國際研討會2017上，土地測量及地理資訊學系兩名博士生的研究獲得認可。劉志趙博士指導的學生楊哲以論文「電離層閃爍效應的後處理分析——實時動態全球衛星定位系統用於低緯度地區」獲最佳學生論文獎，獲頒發證書和港幣一千五百元。陳武教授指導的學生羅歡以壁報「GNSS受干擾環境下的無縫定位系統——以低功耗藍牙與行人航位推算整合」獲最佳學生壁報獎，獲頒發證書和港幣一千元。

是次亞太區年度會議以全球導航衛星系統的技術和應用為焦點，為學者和業界人士提供了一個分享新思想、新技術和討論最新發展的平台。與會者約有一百八十人，來自亞洲、澳洲、歐洲和北美洲，研討會設有十二場口頭報告和壁報展示。有關研討會的更多資料請瀏覽<http://event.lsgi.polyu.edu.hk/ISGNSS2017/index.html>。



LSGI 博士生在IRI研討會上表現出色

2017年11月13至17日，國際參考電離層研討會在台灣舉行，為年輕研究人員提供基礎知識的培訓：電離層監測和建模、電離層地面和空間數據的在線數據庫，以及電離層模型的網頁介面。土地測量及地理資訊學系博士生楊哲獲主辦單位國際科學理事會空間研究委員會資助參加。她不僅認識了來自世界各地的研究人員，還與其中三人合作研究了2017年8月21日日食的電離層效應，並負責展示研究成果，在研討會最後一天獲頒發銀獎。

楊女士正在土地測量及地理資訊學系劉志趙博士的指導下進行博士生研究，利用地面和空間電離層數據研究赤道異常區附近的電離層閃爍。

Entry Scholarship Students Graduate with Distinction

2 postgraduate students, Mr Chun Kit Law and Miss Trecia Kay Ann Williams, who received Entry Scholarships in 2016/17 have recently completed their MSc programmes with Distinction. Mr Law has graduated with an MSc in Facility Management and Miss Williams an MSc in Geomatics (Surveying). Following are their experiences of studying at PolyU and some advice for prospective students.

The 6 years that Mr Law spent at PolyU studying for his Higher Diploma, Bachelor's and Master's degrees gave him many opportunities to broaden his horizons. His study tour to Shanghai was a perfect example of PolyU's motto of "Opening minds, Shaping the Future." His curiosity for new knowledge motivates him to study hard and gives him a sense of mission. His goal is to become a professional engineer for the HKSAR government.

The most memorable experience for Miss Williams was interacting with other students from different backgrounds and cultures. She finds the academic staff very knowledgeable about their subject matter, particularly her supervisor for her final dissertation. She advises students to balance their academic and social lives because it is easy to get caught up in all the experiences Hong Kong has to offer. She is currently working as a surveyor in a private firm in her home country of Jamaica. Her goal is to become a licensed surveyor.

入學獎學金得獎學生以優異成績畢業

兩名2016/17年度入學獎學金得獎者羅俊傑和Trecia Kay Ann Williams，最近完成了碩士學位課程，並取得優異成績。他們分別完成了設施管理和測繪及地理資訊學(測量)理學碩士學位課程，以下是他們在理大的求學經歷，以及對有意報讀學生的建議。



在理大修讀高級文憑、學士和碩士學位的六年，為羅俊傑提供了很多拓展視野的機會。他曾到上海遊學，此行正好引證理大座右銘「啟迪思維·成就未來」。他對新知識的好奇心不僅促使他努力學習，更賦予他一種使命感。他以成為香港特別行政區政府的專業工程師為目標。



Trecia最難忘的經歷是與來自不同背景和文化的學生交流互動。她發現教職員對學生的學習主題了解透徹，尤其是指導她完成最終論文的教授。她建議學生要盡量平衡學術和社交生活，因為香港的生活實在太多姿多彩。她目前在祖國牙買加一家私人公司擔任測量員，目標是成為持牌測量師。

FCE Sharing Session on Student Exchange

To promote student exchanges and encourage more students to spend some time studying abroad, a sharing session on student exchange was held on 12 February 2018. Organized by the Faculty of Construction and Environment (FCE), the session attracted more than 50 students. Dr Patrick Fong, Associate Head (Partnership) of the Department of Building and Real Estate (BRE), gave a presentation highlighting the many reasons for venturing overseas to experience university life on a different campus. He also dispelled some popular myths surrounding the idea of student exchange. His emphasis on personal growth during the exchange experience was echoed by a final-year student from the Department of Building Services Engineering (BSE), Mr Bingnan Li, who spent the fall semester of 2017 as an exchange student at the University of Pittsburgh in the United States. In addition to sharing his experience of studying overseas, Mr Li also helped to answer some questions from the audience. It is hoped more students will seize the opportunity to go on exchange before they graduate.



本院學生交換分享會

本院於2018年2月12日舉行了學生交換分享會，促進學生交換，同時鼓勵更多學生到海外留學，分享會吸引了五十多名學生參加。建築及房地產學系副系主任(協作)方識華博士發表演說，展現到海外在不同校園體驗大學生活的各種好處。他還消除了一些普遍有關學生交換的錯誤看法，強調交換經歷能促使個人成長。就讀屋宇設備工程學系最後一年的李炳南同學認同這個觀點，他在2017年的秋季學期到美國匹茲堡大學作交換學生。除了分享海外留學經歷，李同學還解答了一些觀眾提問。期望更多學生在畢業前抓緊交換的機會，增廣見聞。



German Students Visit FCE

A group of 12 students from the University of Applied Science in Stuttgart, Germany, visited the Faculty of Construction and Environment (FCE) on 9 May 2018 as part of their study tour. Led by Prof. Sabine Rein of the Faculty of Civil Engineering, Building Physics and Economics, the students were welcomed by Prof. Geoffrey Shen, Interim Vice President (Student Affairs), and Dean of FCE Prof. You-lin Xu, who introduced the Faculty and gave the students a lecture on the structural health monitoring of the Tsing Ma suspension bridge in Hong Kong. Prof. Shen's PhD student, Mr Shell Xiao Li, also gave a presentation entitled "Construction Industrialization: Back to the Future." It was a great learning experience for all concerned.

德國學生到訪本院

德國斯圖加特應用科技大學十二位同學於2018年5月9日到訪建設及環境學院，團長為該校土木工程、建築物理學及經濟學院的Sabine Rein教授，到理大參觀是其遊學之旅的其中一站。暫任副校長(學生事務)沈岐平教授及本院院長徐幼麟教授與他們見面時，介紹了本院資料和結構健康監測系統如何應用於香港的青馬大橋，而由沈教授指導的博士生李驍先生，亦發表了題為「建築工業化：回到未來」的專題介紹。眾人均感獲益良多。



BRE PhD Graduate Begins Academic Career

A 2017 PhD graduate of the Department of Building and Real Estate (BRE), Dr Boluwatife Abidoye Rotimi, has joined the Faculty of Built Environment at the University of New South Wales in Sydney, Australia as a Lecturer of Property and Development. Dr Rotimi was a recipient of the Hong Kong PhD Fellowship in 2014 under the supervision of Ir Prof. Albert Chan, Head of BRE. His PhD research focused on accuracy in property valuation and he intends to focus on housing supply and real estate theory and practice in the future. He recently passed the professional assessment to be a chartered valuation surveyor and became a member of the Royal Institution of Chartered Surveyors.

建築及房地產學系博士畢業生投身學術界



2017年畢業於建築及房地產學系的 Boluwatife Abidoye Rotimi 博士，加入了澳洲悉尼新南威爾斯大學的建築環境學院，擔任物業與發展部的講師。2014年，他在建築及房地產學系主任陳炳泉教授的指導下獲得香港博士研究生獎。他主要研究房地產估價的準確性，尤其集中探討未來的住屋供應和房地產理論與實踐。他剛通過了特許測量師的專業評估，並成為皇家特許測量師學會會員。

HK Meteorological Society Honours LSGI PhD Graduate

A recent PhD graduate of the Department of Land Surveying and Geo-Informatics (LSGI), Dr Biyan Chen, has been awarded the prestigious Zhu Kezhen Prize from the Hong Kong Meteorological Society (HKMS). Established to commemorate the outstanding service of its founding Chairman, Mr Patrick Sham Pak, to HKMS and in honour of the distinguished Chinese meteorologist, Zhu Kezhen, the prize includes a certificate and HK\$1,000.

Dr Biyan Chen is the first recipient of the prize from PolyU and the eighth recipient since it was first given in 1999. Given to a meritorious publication in the field of meteorology identified in the preceding year, the prize honours Dr Chen and his former supervisor, Dr George Liu, for their 2016 paper in the American Geophysical Union's *Journal of Geophysical Research: Atmospheres*, entitled "Global water vapor variability and trend from the latest 36 years (1979 to 2014) data of ECMWF and NCEP reanalyses, radiosonde, GPS, and microwave satellite."

LSGI 博士獲香港氣象學會榮譽獎

土地測量及地理資訊學系一名哲學畢業生陳必焰博士最近獲香港氣象學會頒發榮譽獎。設立該獎項是為了紀念學會創辦主席 Patrick Sham Pak 對學會的傑出服務和紀念中國著名氣象學家竺可楨，獎項包括證書和港幣一千元。

這是理大第一位獲得該獎項的人，也是該獎項的第八位獲獎者（首次頒發於1999年）。陳博士及當時指導他的劉志趙博士去年在氣象領域作了出色的發表，因而獲獎。他們在2016年美國地球物理聯盟的《地球物理研究期刊：大氣》上發表了一篇論文，題為「全球水氣變率——數據來自近三十六年（1979至2014年）歐洲中期天氣預報中心及美國國家環境預測中心提供的再分析資料、無線電探空儀、全球定位系統和微波衛星」。





Events

活動剪影

PolyU's 80th Anniversary Celebration Dinner

PolyU's 80th anniversary was celebrated in a grand finale on 7 December 2017 at the Hong Kong Convention and Exhibition Centre. About 2,000 guests turned out for the highly anticipated event, including university representatives, government officials, industry partners, alumni, and friends of PolyU. Mingling with the invited guests were more than 30 academic staff from the Faculty of Construction and Environment (FCE), led by Prof. Xiaoli Ding, Associate Dean (Partnership); Prof. Xiang-dong Li, Associate Dean (Research); as well as the 4 department heads, Prof. Albert Chan of the Department of Building and Real Estate, Prof. Asif Usmani of the Department of Building Services Engineering, Prof. William Lam of the Department of Civil and Environmental Engineering, and Prof. John Shi of the Department of Land Surveying and Geo-Informatics. The guest of honour for the evening was the Chief Executive of the HKSAR, The Hon Mrs Carrie Lam, who officiated a lighting ceremony with other VIPs before insightful speeches from Mr Tze-ching Chan, PolyU Council Chairman, and Prof. Timothy W. Tong, PolyU President.

The night was graced by the stellar performance of world-renowned pianist Mr Lang Lang, who was recently conferred PolyU University Fellowship, as well as the amazing live gig delivered by the President's Band, which included special guests The Hon Michael Wong, Secretary for Development of the HKSAR; Prof. the Hon Sophia Chan, Secretary for Food and Health of the HKSAR; as well as PolyU University Fellows Dr Raymond Chan and Miss Cally Kwong. It was an occasion to remember for all.

理大八十周年校慶晚宴

理大八十周年校慶活動閉幕，慶祝晚宴於2017年12月7日在會議展覽中心盛大舉行，約二千多位大學代表、政府官員、業界夥伴、理大校友和各方友好歡聚共賀。本院副院長(協作)丁曉利教授、副院長(研究)李向東教授，以及四大學系系主任(建築及房地產學系陳炳泉教授、屋宇設備工程學系Asif Usmani教授、土木及環境工程學系林興強教授、土地測量及地理資訊學系史文中教授)帶領三十多位教職員參與其中。香港特別行政區行政長官林鄭月娥女士與另外幾位嘉賓主持亮燈儀式，然後由理大校董會主席陳子政先生及理大校長唐偉章教授發表精辟演說。

晚宴高潮由世界著名鋼琴家郎朗先生(剛獲理大頒授大學院士榮銜)的出色演奏掀起，校長樂隊也帶來精彩難忘的現場表演，特別嘉賓包括發展局局長黃偉綸先生、食物及衛生局局長陳肇始教授、理大大學院士陳煒文博士及鄭美雲小姐。



MoU Between CIC and PolyU

To collaborate in the provision of courses on building information modelling (BIM) for students in construction-related disciplines at the university level, a memorandum of understanding (MoU) was signed between the Construction Industry Council (CIC) and PolyU on 12 April 2018. Signing on behalf of PolyU was Ir Prof. You-Lin Xu, Dean of the Faculty of Construction and Environment (FCE), while the CIC was represented by its Executive Director, Ir Albert Cheng. Associate Dean (Partnership) Prof. Xiaoli Ding and Director (Industry Development) of CIC Ir Henry Fung were witnesses to the signing of the MoU, which is effective for 5 years. Both sides have agreed to cooperate in the development and teaching of BIM courses.

In addition, both parties to the MoU had a chance to share their vision for BIM education afterwards. The current programme/ technology for BIM in FCE was presented by Ir Dr Andy Wong, Senior Teaching Fellow in the Department of Building and Real Estate (BRE).

建造業議會與理大簽訂諒解備忘錄

建造業議會與理大於2018年4月12日簽訂諒解備忘錄，在建造業相關領域合作發展及開辦大學程度的建築資訊建模(BIM)課程。協議為期五年，由本院院長徐幼麟教授工程師及建造業議會執行總監鄭定寧工程師代表簽署，本院副院長(協作)丁曉利教授及該會總監(行業發展)馮景昌工程師擔任見證人。

協約雙方在簽署儀式後更有機會分享對BIM教育的見解。代表本院介紹現有BIM課程及技術的同事，是建築及房地產學系高級專任導師王金殿博士工程師。



Visit of University Grants Committee

To enhance its communications with different stakeholders of PolyU, 16 members of the University Grants Committee (UGC) and 7 of its staff came to the university for a visit on 11 January 2018. They were met by PolyU President, Prof. Timothy W. Tong, Prof. Philip Chan, Deputy President and Provost and the senior management team. Prof. Tong briefed the UGC members on the university's major developments. Among the senior management in attendance were the various Vice Presidents from the President's Office as well as Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE) and Prof. Hans Ladegaard, Acting Dean of the Faculty of Humanities (FH). Subsequently, the UGC members separated into 2 groups to meet with several academics from FCE and FH respectively. Facilitating the UGC meeting with 10 junior academic staff of FCE was Dr Lilian Pun, Associate Head of the Department of Land Surveying and Geo-Informatics, while the meeting with 9 senior FCE academic staff was facilitated by Prof. Geoffrey Shen, Associate Dean (Teaching). The junior academic staff included Dr JoonOh Seo, Dr Hsi-Hsien Wei, and Dr Ivy Wong from the Department of Building and Real Estate (BRE); Dr Horace Mui and Dr Minchen Wei from the Department of Building Services Engineering (BSE); Dr Mark Hsu, Dr Dan Tsang, and Dr Barbara Siu from the Department of Civil and Environmental Engineering (CEE); as well as Dr Charles Wong from the Department of Land Surveying and Geo-Informatics (LSGI). The senior academic staff included the 4 Heads of departments: Prof. Albert Chan of BRE; Prof. Asif Usmani of BSE; Prof. William Lam of CEE; Prof. John Shi of LSGI; as well as Prof. Cheuk-ming Mak of BSE, Prof. Anthony Chen, Prof. Kwok-fai Chung, and Prof. Tao Wang of CEE. It was a great opportunity for the UGC to hear from FCE academics about their activities in teaching and learning, research and knowledge transfer, and services to the community.

大學教育資助委員會到訪

為加強與理大不同持份者的溝通，大學教育資助委員會十六名成員及七名職員於2018年1月11日到訪理大，與校長唐偉章教授、常務及學務副校長陳正豪教授和高級管理層會面，唐教授向教資會成員簡介了學校的主要發展。與會的高級管理層包括校長室幾位副校長、本院院長徐幼麟教授和人文學院代理院長Hans Ladegaard教授。教資會成員隨後分為兩組，分別與多位來自本院及人文學院的學者會面。土地測量及地理資訊學系副系主任潘鄭淑貞博士協助本院十名初級教職員進行會議，本院副院長(教學)沈岐平教授則協助九名高級教職員進行會議。初級教職員包括建築及房地產學系徐準昨博士、魏希賢博士和黃小慧博士；屋宇設備工程學系梅國威博士和魏敏晨博士；土木及環境工程學系徐書謙博士、曾超華博士和邵泳怡博士；以及土地測量及地理資訊學系黃文聲博士。高級教職員包括四個學系的系主任：建築及房地產學系陳炳泉教授、屋宇設備工程學系Asif Usmani教授、土木及環境工程學系林興強教授和土地測量及地理資訊學系史文中教授，還有屋宇設備工程學系麥卓明教授、土木及環境工程學系Anthony Chen教授、鍾國輝教授和王韜教授。是次會議為教資會提供了良好機會，了解本院學者有關教與學、研究、知識轉移，以及服務社區各方面的活動。



Visit from Secretary for the Environment

On 21 December 2017, the Secretary for the Environment of the HKSAR Government, Mr Kam-Sing Wong, GBS, JP, and his administrative assistant, Mr Patrick Lee, visited PolyU. They were welcomed by Prof. Timothy W. Tong, President of PolyU, and 10 senior staff of the university, including Executive Vice President Dr Miranda Lou, Vice President (Campus Development and Facilities) Mr Andy Tong, Vice President (Research Development) Ir Prof. Alex Wai, Associate Vice President (Institutional Advancement), Dr Kitty Yam, and Director of Communications and Public Affairs, Ms Tracy Ng. Selected projects were presented by Prof. Wing-tak Wong, Dean of the Faculty of Applied Science and Textiles (FAST), and Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE), before Mr Alex Lui, Chairman of the Green Deck Task Force and a member of the University Court, presented the Green Deck Project.

In addition, the visitors toured a few laboratories of FAST and FCE. Besides seeing for themselves the Catalyst for Green Biodiesel Production and the Algae Cultivation for Production of Biofuel Laboratory of FAST, they were also introduced to the University Research Facility in Chemical and Environmental Analysis by its Associate Director, Prof. Xiangdong Li, and a few laboratories of the Department of Civil and Environmental Engineering (CEE) by its Head, Prof. William Lam, and some of its academics, namely, the Atmospheric Research Laboratory by Prof. Tao Wang, the Concrete Materials Laboratory by Prof. Chi-sun Poon, the Water Analysis Laboratory by Prof. Xiangdong Li, as well as the Water and Waste Laboratory by Dr Henry Lee. Impactful research outcomes for urban sustainable development were also highlighted to the guests during the laboratory visits.

The 22nd International Conference of Hong Kong Society for Transportation Studies

The 22nd International Conference of the Hong Kong Society for Transportation Studies (HKSTS) was held from 9 to 11 December 2017 at the InterContinental Grand Stanford Hotel. Jointly organized by HKSTS and PolyU's Department of Civil and Environmental Engineering (CEE), the conference attracted over 250 participants from 22 countries. They were warmly welcomed by Prof. Anthony Chen and Dr Tony Sze, co-chairs of the organizing committee from CEE; Prof. K.Y. Wong, Associate Vice President (Research Support) of PolyU; and Prof. William H.K. Lam, President of HKSTS.

環境局局長到訪

香港特別行政區政府環境局局長黃錦星及行政助理 Patrick Lee 先生於2017年12月21日到訪理大，受到理大校長唐偉章教授和十位大學高級職員的熱烈歡迎，包括行政副校長盧麗華博士、副校長(校園發展及設施和管理)唐仕恒先生、副校長(科研發展)衛炳江教授工程師、協理副校長(學院發展)任婉雯博士和傳訊及公共事務處處長吳麗娟女士。應用科學及紡織學院院長黃永德教授和本院院長徐幼麟教授率先介紹幾個特選項目，接著由綠化平台專責小組主席雷震寰先生和大學顧問委員會一位成員介紹綠色平台項目。

此外，到訪者先後參觀了應用科學及紡織學院和本院數個實驗室，親眼目睹綠色生物柴油生產催化劑和用於生物燃料生產實驗室的藻類培育。化學和環境分析中心實驗室副總監李向東教授為來賓介紹其實驗室；土木及環境工程學系的實驗室由系主任林興強教授與學系內的幾位學者作介紹，包括王韜教授介紹大氣研究實驗室；潘智生教授介紹混凝土材料實驗室；李向東教授亦介紹水質分析實驗室，以及李伯亨博士介紹水質及廢料實驗室。參觀期間，理大學者同時展示了在城市可持續發展的重大研究成果。



第二十二屆香港交通研究學會國際會議

第二十二屆香港交通研究學會國際會議於2017年12月9日至11日在海景嘉福洲際酒店舉行，由香港交通研究學會及理大土木及環境工程學系聯合舉辦，參加者包括二百五十多人，來自二十二個國家。他們受到Anthony Chen教授和施能藝博士(土木及環境工程學系、組委會聯合主席)、理大協理副校長(科研支援)黃國賢教授和香港交通研究學會會長林興強教授的熱烈歡迎。



Echoing the theme of the conference, a keynote address entitled "Transport Infrastructure for Society" was delivered by Mr Daniel Chung, JP, Director of Highways of the HKSAR Government. In addition to plenary speeches from 6 internationally renowned scholars, including Prof. Richard Allsop of University College London; Prof. Tetsuo Yai of the Tokyo Institute of Technology; Prof. Yu (Marco) Nie of Northwestern University in the US; Prof. Mark Hickman of the University of Queensland in Australia; Prof. Haijun Huang of Beijing University of Aeronautics and Astronautics; and Dr James Wang of the City University of Hong Kong, over 190 papers on various aspects of transport and society were presented.

Financially supported by Autotoll Limited, Cathay Pacific, Excel Asphalt Limited, Volvo Bus Corporation, and the Faculty of Construction and Environment (FCE), the conference was also sponsored by the Chartered Institute of Logistics and Transport in Hong Kong (CILTHK), the Eastern Asia Society for Transport Studies (EASTS), and the Logistics and Transportation Division of the Hong Kong Institution of Engineers (HKIE).

The 8th International Conference on Water Repellent Treatment and Protective Surface Technology for Building Materials

From 7 to 9 December 2017, about 80 scholars and engineers gathered at PolyU for the 8th International Conference on Water Repellent Treatment and Protective Surface Technology for Building Materials (HYDROPHOBE VIII). They were warmly welcomed by the international organizing committee, which was chaired by Dr Jian-Guo Dai of PolyU's Department of Civil and Environmental Engineering (CEE). Co-chairs of the conference were Prof. Hiroshi Yokota of Hokkaido University and Prof. Tiejun Zhao of Qingdao University of Technology. The booming construction in Asia has led to Hong Kong hosting the Hydrophobe conference for the first time. In his opening speech, Prof. William Lam, Head of CEE, highlighted the importance of promoting the research and development in durability enhancement and preventive maintenance of building and concrete infrastructures.

With 7 distinguished keynote and 4 invited lectures in 4 plenary sessions, participants heard from Prof. Folker H. Wittmann of the Swiss Federal Institute of Technology Zurich (ETHZ), Prof. Changwen Miao of Southeast University, Prof. Surendra P. Shah of Northwestern University, Prof. Koji Takewaka of Kagoshima University, Prof. Caijun Shi of Hunan University, Prof. Zongjin Li of Macau University, Prof. Hongxing Yang of PolyU, Prof. Seongsoon Kim of Daejin University, Prof. Jiaping Liu of Jiangsu Research Institute of Building Science Co. Ltd., Prof. Konstantin Sobolev of the University of Wisconsin-Milwaukee and Prof. Andreas Gerdes of Karlsruhe Institute of Technology.

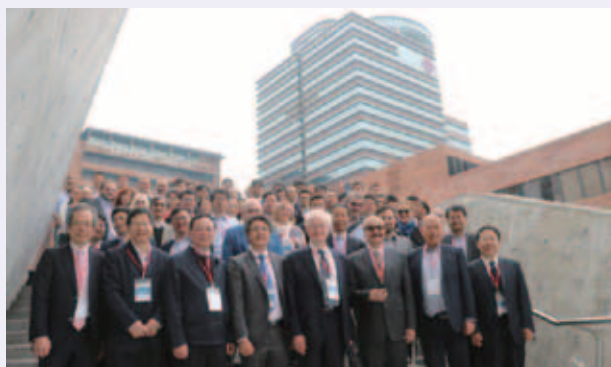
特別行政區政府路政署署長鍾錦華太平紳士回應會議主題，發表以「社會交通基礎設施」為題的演講。會議包括六場由國際知名學者主持的全體演講：倫敦大學學院的Richard Allsop教授、東京工業大學的Tetsuo Yai教授、美國西北大學的Yu (Marco) Nie教授、澳洲昆士蘭大學的Mark Hickman教授、北京航空航天大學的Haijun Huang教授和香港城市大學的James Wang教授，會議上就交通和社會各方面發表的論文有一百九十多篇。

會議由快易通有限公司、國泰航空公司、卓越瀝青有限公司、沃爾沃客車公司和本院資助舉行，並得到香港特許物流與運輸學會、東亞運輸研究學會和香港工程師學會物流及運輸分部的贊助。

第八屆建築材料防水處理與表面防護技術國際會議

2017年12月7至9日，約八十位學者和工程師聚首理大參加第八屆建築材料防水處理及表面防護技術國際會議。他們受到國際組委會的熱烈歡迎，會議主席為理大土木及環境工程學系戴建國博士，聯合主席為北海道大學的Hiroshi Yokota教授和青島理工大學趙鐵軍教授。亞洲地區建築發展蓬勃，香港獲得首次舉辦Hydrophobe會議的機會。土木及環境工程學系系主任林興強教授在開幕致辭中強調，推動研發提高建築和混凝土基礎設施的耐用性和預防性維護非常重要。

全體會議分為四節共七場主題演講和四場特約演講，講者分別來自瑞士蘇黎世聯邦理工學院的Folker H. Wittmann教授、東南大學的繆昌文教授、西北大學的Surendra P. Shah教授、鹿兒島大學的Koji Takewaka教授、湖南大學的史才軍教授、澳門大學的李宗津教授、理工大學的楊洪興教授、Daejin 大學的Seongsoon Kim教授、江蘇建築科學研究院有限公司的劉加平教授、威斯康星大學密爾沃基分校的Konstantin Sobolev教授和卡爾斯魯厄理工學院的Andreas Gerdes教授。



In addition, there were 8 technical sessions on various aspects of the surface treatment technology from material manufacturing to performance characterizations to field applications. On the final day of the conference, participants made a technical visit to the Hong Kong-Zhuhai-Macau Bridge. The 3-day conference was financially supported by Jiangsu Sobute New Materials Co. Ltd., Australia Research Council (ARC) Industrial Transformation Research Hub for Nanoscience Based Construction Material Manufacturing at Monash University, China Harbour Zhenhua Co. Ltd. Hong Kong, CEE and the Faculty of Construction and Environment.

International Symposium on Global Navigation Satellite System (GNSS) 2017

From 10 to 13 December 2017, the International Symposium on GNSS 2017 (ISGNSS 2017) was successfully held at PolyU. The ISGNSS is an Asia-Pacific annual conference that focuses on the technologies and applications of Global Navigation Satellite Systems (GNSS). Dr George Liu, Associate Professor at the Department of Land Surveying and Geo-Informatics (LSGI), served as the Chairman of the local organizing committee.

Welcome speeches were delivered by Ir Prof. Ping-kong Alexander Wai, Vice President (Research Development) of PolyU, and Mr Paul Kwok-wai Ng, Deputy Director (Survey and Mapping) of the Lands Department of the Hong Kong SAR. In addition, keynote speakers representing the Chinese BeiDou Navigation Satellite System (BDS) Programme Office and the US Global Positioning System Programme Office shared the latest progress of the two navigation systems respectively.

With 12 oral sessions and a poster session, the Symposium covered a wide range of research topics, including GNSS algorithms and methods, geodesy surveying and mapping, GNSS augmentations, and GNSS remote sensing and many others. Over the 4-day period, approximately 180 participants from Asia, Australia, Europe, North America attended this symposium, which provided an excellent platform for academia and industry to discuss and promote new ideas, innovations and latest developments.

To encourage the participation of students and recognize their work, Best Student Paper Awards (one for each session) and a Best Poster Award were presented at the closing ceremony. It was also announced that the next ISGNSS 2018 conference would be held at Bali, Indonesia. For more details of the ISGNSS 2017, please visit <http://event.lsgi.polyu.edu.hk/ISGNSS2017/index.html>.

此外，還有八個關於建築材料表面處理的技術會議，分享從材料製造、性能表徵到現場應用等研究結果。在會議的最後一天，與會者參觀了港珠澳大橋。為期三天的會議由江蘇蘇博特新材料股份有限公司、澳洲研究委員會蒙納士大學納米科技基礎建材製造產業轉型研究中心、中國港灣振華有限公司香港、土木及環境工程學系和本院資助舉行。

全球導航衛星系統國際研討會 2017

2017年12月10至13日，全球導航衛星系統國際研討會於理大順利舉行。這是一個亞太區年度會議，以全球導航衛星系統的技術和應用為焦點。土地測量及地理資訊學系副教授劉志趙博士擔任本地組委會主席。

理大副校長(科研發展)衛炳江教授、工程師及香港特別行政區地政總署測繪處副署長吳國偉先生致歡迎辭。另外，代表中國北斗衛星導航系統項目辦公室和美國全球定位系統項目辦公室的兩位主要講者分別介紹了兩種導航系統的最新發展。

研討會設有十二場口頭報告和壁報展示，涵蓋的研究課題十分廣泛，包括全球導航衛星系統算法和方法、大地測量測繪、增強全球導航衛星系統和遙感等等。研討會為期四天，參加者來自亞洲、澳洲、歐洲、北美洲約一百八十人。是次研討會為學者和業界人士提供了一個推廣新意念、討論創新及最新發展的絕佳平台。

為鼓勵學生參與，並認可他們的努力，大會在閉幕式上頒發了最佳學生論文獎(每場一個)和最佳壁報獎，並宣布了下一屆全球導航衛星系統國際研討會2018將會在印尼峇里舉行。有關研討會的詳細資料請瀏覽<http://event.lsgi.polyu.edu.hk/ISGNSS2017/index.html>。



Lab Opening and Summit on Smart City

To mark the opening of the Laboratory for Smart City and Spatial Big Data Analytics on 20 March 2018, a summit on the future of smart city was held that day. Officiating at the opening ceremony of the laboratory was Prof. Timothy W. Tong, President of PolyU. The Under Secretary for Innovation and Technology of the HKSAR Government, Dr David Chung, was the guest-of honour. He delivered an opening address before Prof. John Shi, Director of the Lab for Smart City and Spatial Big Data Analytics as well as Head of the Department of Land Surveying and Geo-Informatics (LSGI), introduced the state-of-the-art lab.

Organized into 3 sessions, the summit covered themes ranging from Smart Government to Smart Living and Smart Environment to Smart Mobility. Keynote speeches in each of the sessions were respectively delivered by 3 Distinguished Chair Professors of LSGI, namely Prof. Michael Goodchild from the University of California at Santa Barbara, Prof. Michael Batty from University College London, and Prof. Mei-po Kwan from the University of Illinois at Urbana-Champaign. A panel discussion moderated by Prof. John Shi followed each speech, which were all well received by over 200 participants, including government officials, practitioners, and researchers.

The issues addressed by the summit will no doubt help the new laboratory accomplish its mission of developing key technologies for Smart City, providing smart city solutions for Hong Kong and the Greater Bay Area, as well as related consultancy support for the local government.



RICS University Annual Partnership Meeting

The Annual Partnership Meeting between the Royal Institution of Chartered Surveyors (RICS) and PolyU was held on 19 December 2017. Representing PolyU were 9 academics of the Faculty of Construction and Environment (FCE), led by Prof. Geoffrey Shen, Associate Dean (Teaching). In attendance were 4 representatives from RICS (including Mr Daniel Shum, Regional Representative/Local Employer; Prof Daniel Ho, External Examiner; Mr Ernest Leung, Regional Professional Development Director, RICS East Asia; and Mr Kevin Lui, Senior Membership Development Officer, RICS East Asia). After introductions were made, each side took turns briefing one another on its current position and latest developments. This was followed by a joint review on course provision and course development, with attention paid to the annual monitoring report, the external examiner's report, the threshold standard, research strategy, and employability of graduates. Mutual aims and objectives were also reviewed before the end of the meeting.

智慧城市及空間大數據分析實驗室揭幕典禮暨高峰論壇

為慶賀智慧城市及空間大數據分析實驗室於2018年3月20日揭幕，土地測量及地理資訊學系特別於同日舉辦高峰論壇探討智慧城市的未來。當天的主禮嘉賓為理大校長唐偉章教授及特區政府創新及科技局副局長鍾偉強博士。鍾博士致揭幕辭後，土地測量及地理資訊學系系主任兼實驗室主任史文中教授隨即向來賓介紹該處的先進設施。

當天的論壇分三節，涵蓋智慧政府、智慧生活、智慧環境、智慧出行等主題。每個環節均設主題演講，由該系三位傑出講座教授主講，分別為加州大學聖芭芭拉分校的Michael Goodchild教授、倫敦大學學院的Michael Batty教授，以及伊利諾大學厄巴納-香檳分校的關美寶教授。每個主題演講結束後皆有小組討論，由史文中教授親自主持。當日的參加者超過二百位，當中不乏政府官員、業內人士及科研人員，氣氛非常熱烈。

高峰論壇上討論的議題，肯定有助實驗室達致發展智慧城市所需重點技術的目標，為香港及大灣區轉型智慧城市提出可行方案，以及為特區政府提供有關的顧問支援。



皇家特許測量師學會年度合作會議

皇家特許測量師學會與理大的年度合作會議於2017年12月19日舉行。本院副院長(教學)沈岐平教授帶領九位學者代表理大出席，皇家特許測量師學會則有四名代表出席，包括區域代表/當地雇主Daniel Shum先生、外部審查員Daniel Ho教授、RICS東亞區域專業發展總監梁偉立先生和高級會員發展主任呂兆熙先生。雙方經過介紹之後，輪流講解目前的位置和最新的發展。接著，他們一起研究課程設置和發展的細節，特別關注年度監測報告、外部審查員報告、門檻標準、研究策略和畢業生就業能力。雙方在會議上達成了共同的宗旨和目標。



Council Members Visit FCE

On 16 March 2018, 5 members of the PolyU Council, namely Ir Dr James Lau, Ms Julia Lau, Ir Dr Humphrey Leung, Mr Stephen Liu, and Mr Alex Wong visited the Faculty of Construction and Environment to learn more about its research and programmes. Joining them were PolyU's Executive Vice President Dr Miranda Lou and Vice President (Campus Development and Facilities) Mr Andy Tong. They were all welcomed by Prof. You-lin Xu, Dean of FCE, who gave a detailed presentation introducing the Faculty, including its research impact and knowledge transfer activities in several areas. In attendance were Prof. Xiaoli Ding, Associate Dean (Partnership); Prof. Geoffrey Shen, Associate Dean (Teaching); Prof. Albert Chan, Head of the Department of Building and Real Estate (BRE); Prof. Asif Usmani, Head of the Department of Building Services Engineering (BSE); Prof. William Lam, Head of the Department of Civil and Environmental Engineering (CEE); Prof. John Shi, Head of the Department of Land Surveying and Geo-Informatics (LSGI); and Prof. Chi-Sun Poon, Associate Head (CEE).

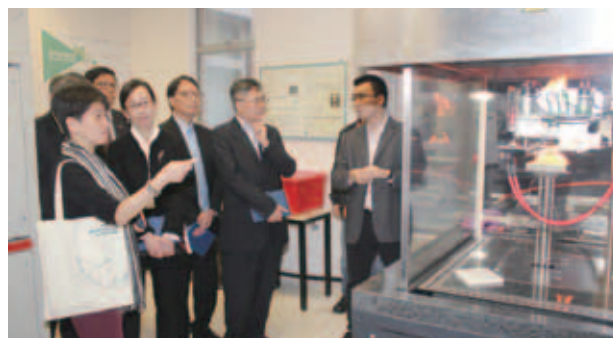
Subsequently, the visitors toured a few research facilities of FCE with Prof. You-lin Xu. They met with Prof. Chi-Sun Poon at the Concrete Materials Laboratory, Prof. Asif Usmani and Dr Xinyan Huang at the Fire Engineering Laboratory, as well as Prof. John Shi at the Laboratory of Smart City and Spatial Big Data Analytics. It was a great opportunity for FCE to showcase some of its research achievements and impress the visitors, who noted the inclusion of two new programmes, namely the BEng (Hons) in Sustainable Structural and Fire Engineering and the BSc (Hons) in Urban Informatics for Smart Cities, in the University's 2019-22 Triennium Planning Exercise Proposal to the University Grants Council. They also noted the collaboration between LSGI and the Planning Department of the HKSAR Government in the development of a web platform for various smart city applications.



校董會成員視察建設及環境學院

2018年3月16日，劉志宏博士工程師、劉文君女士、梁廣偉博士工程師、廖凌康先生及王振邦先生五位理大校董聯袂視察建設及環境學院，以深入了解本院的科研及教學情況，同行者還有大學行政副校長盧麗華博士及副校長(校園發展及設施管理)唐仕恆先生。院長徐幼麟教授歡迎眾人，並詳細介紹學院現況，包括在數個領域的科研影響力與知識轉移工作。在場的學院其他主管人員有副院長(協作)丁曉利教授、副院長(教務)沈岐平教授、建築及房地產學系系主任陳炳泉教授、屋宇設備工程學系系主任Asif Usmani教授、土木及環境工程學系系主任林興強教授、土地測量及地理資訊學系系主任史文中教授，以及土木及環境工程學系副系主任潘智生教授。

他們在徐幼麟教授陪同下參觀本院科研設施，並由潘智生教授、Asif Usmani教授及黃鑫炎博士，以及史文中教授分別講解混凝土材料實驗室、消防工程實驗室，以及智慧城市及空間大數據分析實驗室的資料。幾位校董因此對本院的科研成就留下深刻印象，並知悉理大在向大學資助委員會提交的2019-22三年規劃建議書內，已提出開辦「可持續結構及消防工程(榮譽)工學士」與「智慧城市與城市資訊學(榮譽)理學士」兩個全新課程。他們亦獲悉土地測量與地理資訊學系正聯同特區政府規劃署開發可支援多個智慧城市應用程式的網上平台。



Senior Management of PolyU Visits LSGI

On 19 January 2018, the President of PolyU, Prof. Timothy W. Tong, the Deputy President and Provost, Prof. Philip Chan, as well as the Dean of the Faculty of Construction and Environment (FCE), Prof. You-lin Xu, visited the Department of Land Surveying and Geo-Informatics (LSGI). They met with the Department Head, Prof. John Shi, and Associate Heads Prof. Zhi-lin Li and Dr Lilian Pun, for an update on the latest developments in LSGI, including the challenges and opportunities that the department is facing with the recent push to develop Hong Kong into a smart city. After a visit to the Laboratory for Smart City and Spatial Big Data Analytics, the senior management had a chance to meet with some LSGI students, from undergraduates to postgraduates to PhD candidates. They also met with LSGI academic staff before the end of the visit. It was a great way for university management to stay in touch with the issues of concern to LSGI staff and students.

理大高級管理層訪問 LSGI

2018年1月19日，理大校長唐偉章教授、常務及學務副校長陳正豪教授和本院院長徐幼麟教授訪問土地測量及地理資訊學系。他們會見了系主任史文中教授、副主任李志林教授和潘鄭淑貞博士，了解學系的最新發展，包括最近推動香港發展成為智慧城市所面對的挑戰和機遇。他們參觀智慧城市和空間大數據分析實驗室後，接觸了系內學生，從本科生到研究生到博士生。在訪問結束前，他們還與該學系的教職員會面。訪問活動為大學管理層與系內師生提供溝通的機會，並對相關問題保持關注。



FCE Hosts Visitors from Zhejiang University

On 11 December 2017, 6 delegates from Zhejiang University (ZJU) visited the Faculty of Construction and Environment (FCE) to learn more about management strategies at both Faculty and departmental levels as well as how to raise its profile in global university rankings. Led by Prof. Yaozhi Luo, Dean of the College of Civil Engineering and Architecture at ZJU, the visitors met with Prof. You-lin Xu, Dean of FCE; Prof. Xiaoli Ding, Associate Dean (Partnership); Prof. Xiang-dong Li, Associate Dean (Research); and Prof. Albert Chan, Head of the Department of Building and Real Estate (BRE), to discuss these very issues in addition to exploring the potential for collaboration in a memorandum. They also had a brief tour of the Faculty's laboratories and the Innovation Tower before meeting Emeritus Prof. Jan-ming Ko and Prof. Yi-qing Ni, Director of the National Rail Transit Electrification and Automation Engineering Technology Research Center (Hong Kong branch), respectively for 2 separate interviews in the afternoon.

Moreover, some of the visitors talked to the Faculty Secretary, Ms Carmen Lee, and 2 Senior Executive Officers, Ms Yoyo Tsui and Ms Marie Yip, about the work involved in managing the Faculty office. The leadership of ZJU had a chance to congratulate Prof. Jin-guang Teng on his recent election to the Chinese Academy of Sciences before the end of the visit.

接待浙江大學代表

2017年12月11日，來自浙江大學的六位代表到訪本院，了解關於管理學院和學系的策略，以及如何提升其全球大學排名位置。到訪者在浙江大學建築工程學院院長羅堯治教授的帶領下，與本院院長徐幼麟教授、副院長(協作)丁曉利教授、副院長(研究)李向東教授和建築及房地產學系系主任陳炳泉教授探討以上問題，並洽談合作備忘錄。他們還參觀了本院的實驗室和創新塔，接著於下午分別與榮休教授高贊明和國家軌道交通電氣化與自動化工程技術研究中心(香港分中心)主任倪一清教授獨立會面。

此外，部分到訪者與院務主任李筱怡女士及兩位高級行政主任徐瑤女士和葉慧珊女士就管理學院辦公室事宜進行會談。訪問期間，浙江大學代表更參與了祝賀滕錦光教授近日當選為中國科學院院士的活動。



FCE Hosts Delegation from Pakistan

To explore future collaboration between PolyU and universities in Pakistan, a delegation led by Lt Gen (R) Muhammad Asghar of the Higher Education Commission and former Rector of the National University of Science and Technology (NUST) in Pakistan visited PolyU on 26 and 27 March 2018. The 3 visitors toured a few lab facilities of the Faculty of Construction and Environment (FCE) on the second day of their visit, meeting Dr You Dong of the Department of Civil and Environmental Engineering (CEE) in the Structural Dynamic Laboratory, Prof. Geoffrey Shen, Associate Dean (Teaching), and Prof. Albert Chan, Head of the Department of Building and Real Estate (BRE) respectively, in the Collaborative Working Laboratory and the Smart Construction Laboratory, as well as Prof. John Shi, Head of the Department of Land Surveying and Geo-Informatics (LSGI), and his colleague Dr Charles Wong in the Laboratory for Smart City and Spatial Big Data Analytics. They were further introduced to FCE by its Dean, Prof. Youlin Xu, and Associate Dean (Partnership) Prof. Xiaoli Ding, in the Ng Wing Hong Lab for Sustainable City, where a discussion on research collaboration was held with respect to infrastructure, smart city, geo-informatics, resilient/ disaster governance. Areas of mutual interest such as talent mobility and research attachment for both faculty and students, dual degree programmes at MS and PhD levels, student recruitment etc. were discussed. The delegation also had a chance to meet with several graduates of NUST who are currently undertaking PhD studies in FCE. It was a rewarding visit for all concerned.



接待巴基斯坦代表團

以 Muhammad Asghar 中將為首的巴基斯坦高等教育委員會代表團於2018年3月26至27日到訪理大，希望加強我校與當地大學合作。Muhammad Asghar 中將是巴基斯坦國立科技大學前校長；代表團一行三人，在訪問的第二天參觀了本院多項實驗室設施：於結構動力學實驗室會見土木及環境工程學系的董優博士；分別於協作工作實驗室及智慧建築實驗室會見副院長(教務)沈岐平教授與建築及房地產學系系主任陳炳泉教授；以及到訪智慧城市及空間大數據分析實驗室，與土地測量及地理資訊學系系主任史文中教授及同系的黃文聲博士見面。他們其後由院長徐幼麟教授及副院長(協作)丁曉利教授陪同參觀「伍永康實驗室－可持續城市發展」，探討在基建、智慧城市、地理資訊學、災害治理等範疇進行科研合作，並討論人才流動、教員與學生的科研實習交流、碩士/博士雙學位課程、招生等彼此關心的課題。代表團還會見了幾位正修讀本院博士課程的巴基斯坦國立科技大學校友。各人均感此行獲益良多。



LSGI Hosts Visitors from Singapore and Zurich

A 20-strong delegation from Singapore and Zurich visited the Department of Land Surveying and Geo-Informatics (LSGI) from 16 to 20 April 2018 to learn about underground utility and technologies for Smart City in PolyU and Hong Kong. The study visit was part of the digital underground initiative in Singapore. Led by the chief executive of the Singapore Land Authority (SLA), Mr Tan Boon Khai, and the Future Cities Laboratory of the Singapore-ETH Centre, participants included land surveyors and engineers from government agencies as well as experts in geomatics. The visitors were greeted by Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE), and Prof. John Shi, Head of LSGI, who introduced the Faculty and the department on the first day. Six case studies were subsequently introduced in the Underground Utility Survey Lab by Ir Dr Wallace Lai and Dr Janet Sham, who led a field demonstration on different aspects of utility management and survey in Hong Kong. A visit to the Laboratory for Smart City and Spatial Big Data Analytics afterwards gave the visitors a chance to learn from Prof. Shi the latest Smart City development by LSGI, including spatial data infrastructure.

For the rest of the week, the delegation was led by Ir Dr Lai to visit the China Hong Kong Society of Trenchless Technology, Black & Veatch's office, the Hong Kong Institute of Utility Specialists, the Housing Department, the Drainage Services Department, the Survey and Mapping Office of the Lands Department of the HKSAR Government. Various experiences related to geophysical utility mapping to "see the unseen," building information modelling, and related matters were shared amongst the participants. Potential collaboration between PolyU, SLA, and the Singapore-ETH Future Cities Lab was discussed on the last day of the delegation's visit, which ended with a lecture by Dr Gerhard Schrotter, Director of the Department of Geomatics in Zurich, and Dr Victor Khoo, Deputy Director of SLA, on Smart City development in Zurich and Singapore, particularly with respect to the digital underground. It was a rewarding trip for all concerned.



土地測量及地理資訊學系接待來自新加坡及蘇黎世的學術探訪團

一行來自新加坡及蘇黎世的二十人代表團，於2018年4月16至20日訪問土地測量及地理資訊學系，藉著觀摩理大及香港為智慧城市研發的地下管線測繪技術，為獅城推動地下設施造影製圖技術發展。是次訪問由新加坡土地管理局行政總裁Tan Boon Khai先生，及新加坡-ETH研究中心未來城市實驗室牽頭，團員有當地政府機構的土地測量師、工程師，以及地理資訊學專家。訪問首日，由院長徐幼麟教授迎接代表團，並由土地測量及地理資訊學系系主任史文中教授介紹本院及該系資料。訪問團其後由賴緯樂博士工程師及岑鳳珠博士陪同參觀地下管線測量實驗室，了解數個精心挑選的有關地下管線測繪案例；兩人並主持即場示範，多角度闡述香港的管線管理和測量工作。來賓亦參觀了智慧城市及空間大數據分析實驗室，由史文中教授講解學系有關智慧城市最新的研究方向及發展，當中包括空間基礎數據建模。

在接著的四天，一行人由賴緯樂博士工程師帶領到訪中國香港非開挖技術協會、Black & Veatch香港辦事處、香港管線專業學會、房屋署、渠務署，以及地政總署轄下的測繪處，分享有關繪製地下設施圖、建築資訊建模等經驗。在訪問的最後一天，雙方洽談了理大、新加坡土地管理局，以及新加坡-ETH研究中心未來城市實驗室在日後的相關合作。壓軸節目是由蘇黎世地理資訊部總監Dr Gerhard Schrotter及新加坡土地管理局副總監Dr Victor Khoo演講，分別闡述兩地發展為智慧城市的進展，尤其是地下管線管理造影製圖科技的現況。眾人均感是次行程獲益良多。



Visit of Delegation from Nazarbayev Intellectual Schools

4 representatives of Nazarbayev Intellectual Schools (NIS) visited PolyU on 10 and 12 January 2018 to meet with NIS graduates currently studying at the University. Led by Ms Kulyash Shamshidinova, Chairperson of the Board of the Autonomous Educational Organization, the delegates met with the Section Head of PolyU's Secondary School Relations Section, Ms Corrina Lu, on 10 January before meeting with Prof. Timothy W. Tong, President of PolyU; Prof. Edwin Cheng, Dean of the Faculty of Business; Prof. H.C. Man, Dean of the Faculty of Engineering; Prof. Raymond Wong, Associate Dean of the Faculty of Applied Science and Textiles; Prof. Xiaoli Ding, Associate Dean of the Faculty of Construction and Environment; Prof. Esmond Mok, Dean of Students; and Mr Eric Lo, Associate Director of the International Affairs Office, on 12 January. The visitors were given a tour of the PolyU campus, including the House of Innovation, the Jockey Club Innovation Tower, the library and other student facilities as well as the Industrial Centre, lab facilities, PolyU's teaching and research hotel, the School of Hotel & Tourism Management and Student Halls of Residence. A tea gathering with 5 NIS graduates currently studying at PolyU concluded their visit. It was a rewarding visit for both the visitors and PolyU, where more quality students from NIS can be expected in the future.

Visit from Wuhan Government Delegation

On 6 December 2017, half a dozen Wuhan government officials visited the Faculty of Construction and Environment (FCE) to explore and strengthen collaboration between PolyU and universities in Wuhan to address the challenge of air pollution. They were introduced to FCE by Prof. Xiaoli Ding, Associate Dean (Partnership), the research activities of the Department of Civil and Environmental Engineering (CEE) by its Head, Prof. William Lam, as well as research on transportation and air quality by Prof. Hai Guo. The application of the smart city system and Hong Kong's air pollution control measures in Wuhan were discussed. It was a fruitful visit for all concerned.

NIS 代表團到訪

納扎爾巴耶夫智慧學校四名代表於2018年1月10日和12日到訪，與現正就讀於理大的NIS畢業生見面。代表團於1月10日在自治教育組織董事會主席Kulyash Shamshidinova的帶領下，首先會見了理大中學關係部部長呂玉嫦女士。他們再於1月12日與理大校長唐偉章教授會面，還有工商管理學院院長鄭大昭教授、工程學院院長文効忠教授、應用科學及紡織學院副院長黃維揚教授、建築及環境學院副院長丁曉利教授、學務長莫志明教授和國際事務處副主任盧嘉麒先生。到訪者參觀了理大校園，包括創新館、賽馬會創新樓、圖書館及其他學生設施、工業中心、實驗室設施、理大教學及科研酒店、酒店及旅遊管理學院和學生宿舍。到訪者最後跟五名就讀於理大的NIS畢業生茶聚，以結束訪問活動。是次活動對到訪者和理大都富有意義，相信將有更多NIS優質學生有意到理大進修。

武漢政府代表團到訪

2017年12月6日，六位武漢政府官員到訪本院，探討和加強理大與武漢大學的合作，共同面對空氣污染的挑戰。副院長(協作)丁曉利教授向到訪者介紹了本院；系主任林興強教授講解了土木及環境工程學系的研究活動；郭海教授展示了對交通和空氣質量的研究。雙方還探討了智慧城市系統和香港空氣污染控制措施在武漢實行的情況。訪問活動富有成果，彼此獲益良多。



Visit from Muslim University of Indonesia

On 2 February 2018, about 40 delegates from the Faculty of Engineering of the Muslim University of Indonesia (MUI) in Makassar visited the Faculty of Construction and Environment (FCE) to learn more about its departments and its programmes. Led by Mr Hanafi Ashad, Dean of the Faculty of Engineering at MUI, they were introduced to FCE and CEE respectively by Prof. Xiaoli Ding, Associate Dean (Partnership) of FCE, and Prof. Siu-lai Chan, Associate Head (Partnership) of CEE, both of whom gave presentations that were comprehensive and informative. Prof. Ding and Prof. Chan also addressed questions from the visitors, who had a chance to tour a few facilities afterwards, including the Fire Engineering Laboratory, the Underground Utility Survey Laboratory, and the Smart Construction Laboratory. It was a rewarding visit for both universities. More exchanges and collaboration between them can be expected in the future.



印尼穆斯林大學到訪

2018年2月2日，約40名來自印尼穆斯林大學工程學院的代表在其院長Hanafi Ashad帶領下參觀了本院，增加對各學系及課程的了解。本院副院長(協作)丁曉利教授和土木及環境工程學系副主任(協作)陳紹禮教授分別對本院和土木及環境工程學系作了全面而豐富的介紹，還解答到訪者的提問。其後代表團參觀了一些校園設施，包括消防工程實驗室、地下管線測量實驗室和智能建設實驗室。是次訪問對兩所大學都富有意義，可望未來有更多交流和合作的機會。

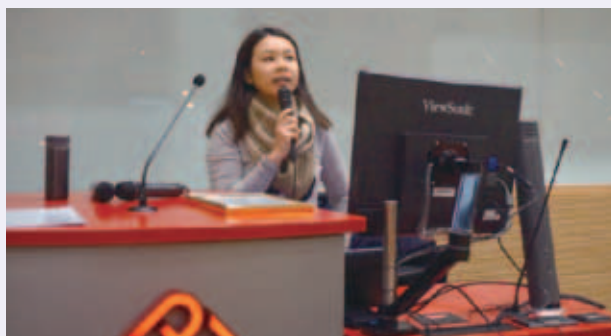


Joint CPD Seminar by HKIPM and HKICM

A seminar for continuing professional development (CPD) was held in the evening of 2 February 2018. Jointly organized by the Hong Kong Institute of Project Management (HKIPM) and the Hong Kong Institute of Construction Managers (HKICM), together with the support of the Department of Building and Real Estate (BRE), the seminar was led by Ms Addie Cheng, an architect by profession and the co-founder/ director of Synergy Biz Group Ltd. Her talk on co-space development in Hong Kong attracted 75 people, most of whom were members of HKIPM and HKICM or BRE graduates. In addition to highlighting the challenges and opportunities in developing co-space projects in Hong Kong, she also shared her experiences of creating co-working and co-living spaces across the territory, including her latest co-living project called Bibliotheque in Mongkok, Kowloon.

香港項目管理學會與香港營造師學會聯合舉辦持續專業發展研討會

持續專業發展研討會在2018年2月2日晚上舉行，由香港項目管理學會和香港營造師學會聯合舉辦，並得到建築及房地產學系副主任及副教授陳煒明博士的支持。研討會由註冊建築師和Synergy Biz Group Ltd.聯合創始人/董事鄭穎琛主講，她的演講關於香港共享空間發展項目，吸引了七十五人參加，當中大部分是香港項目管理學會和香港營造師學會成員或建築及房地產學系的畢業生。除了強調在香港發展共享空間項目所面臨的挑戰和機遇，她還分享了在這裡創建共同工作空間和共居空間的經驗，包括在九龍旺角的最新共居發展項目「書匯」。



Sharing Session on Developing MicroMasters

A sharing session on how to develop MicroMasters was held on 6 February 2018. Organized by Prof. Geoffrey Shen, Associate Dean (Teaching), the session featured a guest speaker from PolyU's School of Hotel and Tourism Management (SHTM), which has been offering credit-bearing massive open online courses (MOOCs) for a number of years. Prof. Hanqin Qiu shared her experiences of promoting SHTM's Master programmes to potential students in various countries. In attendance were about 20 academics from the Faculty of Construction and Environment (FCE), including Prof. You-lin Xu, Dean of FCE. Similar MicroMasters leading to a certificate that can be transferred to a full master degree may be offered by FCE in the future. As a precedent, a MOOC entitled "Introduction to Urban Geo-Informatics" has been offered by the Department of Land Surveying and Geo-Informatics (LSGI).



開發微碩士課程分享會

有關開發開放在線微碩士課程的分享會於2018年2月6日舉行，由本院副院長(教學)沈岐平教授主持，邀請了理大酒店及旅遊業管理學院邱漢琴教授作演講嘉賓。該學院多年來提供大規模開放在線學分課程，邱教授分享了向各國潛在學生推廣該學院碩士課程的經驗。本院約二十位學者出席，包括院長徐幼麟教授。本院將來可能提供類似微碩士課程，其證書可轉換為完整碩士學位的一部分學分。土地測量及地理資訊學系已開始提供「城市地理資訊學導論」的大規模開放在線課程。



2018 Info Day for FCE Taught Postgraduate Programmes

More than 130 prospective students flocked to PolyU on 13 January 2018 for the Taught Postgraduate Info Day, which began with an overview of the Postgraduate Scheme in Construction and Environment from its Chairman, Prof. Geoffrey Shen, Associate Dean (Teaching). This was followed by a presentation of the 2017/18 Entry Scholarships to 10 awardees by Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE), before 3 of the awardees, Miss Wai Ping Chuang, Mr Shing Poon, and Mr Ho Ching Wong, shared their learning experiences in their chosen MSc programme respectively. In addition to break-out sessions for 11 different taught postgraduate programmes, there was a sharing session with the current scholarship awardees about how their MSc programmes have impacted their career and personal growth. It was a great way for future students to learn more about the various taught postgraduate programmes offered by FCE.

授課式深造課程資訊日2018

2018年1月13日，理大舉行授課式深造課程資訊日，超過一百三十人參加。建設及環境學院深造計劃主席、副院長(教學)沈岐平教授首先簡介計劃內容，院長徐幼麟教授接著頒發2017/18年度入學獎學金予十位學生，其中三位分別講述了在其選擇的碩士學位課程中學習的經歷。當日除了十一個不同的授課式深造課程分組會議，獎學金得獎者還分享了課程對他們的職業生涯和個人成長的深遠影響。是次活動提供了很好的機會，讓有意報讀的學生增加對本院各種深造課程的了解。



PolyU Counsellors Days

The PolyU Counsellors Days were held from 21 to 23 March 2018 to introduce the range of programmes available at the Schools and Faculties of the University. Secondary school counsellors from about 23 countries attended the event, which was an excellent opportunity for the Faculty of Construction and Environment (FCE) to showcase its programmes and facilities to the local and foreign visitors. Prof. Xiaoli Ding, Associate Dean (Partnership), gave a presentation introducing FCE, while Dr Patrick Fong, Associate Head of the Department of Building and Real Estate (BRE); Prof. S.K. Tang, Associate Head of the Department of Building Services Engineering (BSE); Ir C.L. Kwan of the Department of Civil and Environmental Engineering (CEE); and Dr George Liu of the Department of Land Surveying and Geo-Informatics (LSGI) were on hand to answer programme related questions.

In addition, tours of the Smart City Laboratory, the Fire Engineering Laboratory, the Transport and Highway Engineering Laboratory, and the Smart Construction Laboratory were provided for the counsellors. The Counsellors Days concluded with a mini-fair where departmental representatives promoted their respective departments and passed out programme leaflets/ souvenirs to visitors.



理大課程諮詢日

理大於2018年3月21至23日舉辦諮詢日，介紹各學系開辦的課程，吸引了約二十三個國家的中學輔導人員參加。建設及環境學院亦把握這個黃金機會，向本地及國外訪客講解各項課程及設施。當天負責介紹本院資料的是副院長(協作)丁曉利教授，而代表四大學系即場解答課程問題的學者則有方識華博士(建築及房地產學系副系主任)、鄧兆強教授(屋宇設備工程學系副系主任)、關仲廉工程師(土木及環境工程學系)，以及劉志趙博士(土地測量及地理資訊學系)。

另外，蒞臨的學校輔導人員亦獲安排參觀本院轄下的智慧城市實驗室、消防工程實驗室、運輸及公路工程實驗室和智慧建築實驗室。課程諮詢日的最後一節是小型博覽會，由各學系代表推介所屬學系和向參加者派發課程單張/紀念品。



PolyU Open Days

As part of its 80th Anniversary celebrations, PolyU hosted Open Days on 2 and 3 December 2017 to showcase the university. Officiating at the opening ceremony were Mr Carlson Tong, Chairman of the University Grants Committee (UGC); Mr Tze-Ching Chan, Council Chairman; and Prof. Timothy W. Tong, President of PolyU. In attendance were Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE); Prof. Albert Chan, Head of the Department of Building and Real Estate (BRE); Prof. Asif Usmani, Head of the Department of Building Services Engineering (BSE); Prof. William Lam, Head of the Department of Civil and Environmental Engineering (CEE); Prof. John Shi, Head of the Department of Land Surveying and Geo-Informatics; as well as various university staff. FCE staff also participated in the 8 x 80 Cycling Kick-off ceremony on 3 December.

In addition to guided tours of some of FCE's laboratories, namely, the Smart Construction Lab, the Smart City Lab, Indoor Environmental Quality Lab, the Water and Waste Teaching Lab, and the Underground Utility Survey Lab, there were well-received talks by Prof. Shuncheng Lee of CEE and Prof. Shengwei Wang of BSE respectively. Prof. Lee's talk was about indoor and outdoor air pollution, while Prof. Wang talked about green and smart buildings. Award-winning research projects led by Prof. Albert Chan, Prof. Hong-xing Yang of BSE, and Prof. Chi-sun Poon of CEE were also displayed in an exhibition. These ranged from anti-heat stress clothing for construction workers in hot and humid weather to development of a highly dispersed self-cleaning paste to turning waste into eco-construction materials.



理大開放日

理大於2017年12月2及3日舉辦開放日，作為八十週年紀念活動的一部分。大學教育資助委員會主席唐家成先生、校董會主席陳子政先生和校長唐偉章教授主持開幕禮。出席者包括院長徐幼麟教授、建築及房地產學系系主任陳炳泉教授、屋宇設備及工程學系系主任Asif Usmani教授、土木及環境工程學系系主任林興強教授、土地測量及地理資訊學系系主任史文中教授以及多位教職員。本院同事更參與了12月3日舉行的「8x80」單車樂啟動儀式。

本院的開放日活動中，除了實驗室(智能建築實驗室、智慧城市實驗室、室內環境質量實驗室、水和廢物教學實驗室以及地下管線測量實驗室)導覽，還有土木及環境工程學系李順誠教授及屋宇設備工程學系王盛衛教授的演講，前者關於室內和室外空氣污染，後者是綠色和智能建築。此外，參與展覽的有陳炳泉教授、屋宇設備工程學系楊洪興教授、土木及環境工程學系潘智生教授領導的獲獎研究項目，包括建築工人在炎熱和潮濕天氣下穿著的抗熱服、開發高度分散的自潔塗料、將廢物變成生態建築材料等。



PolyU JUPAS Consultation Day 2018

The Faculty of Construction and Environment (FCE) and its 4 departments jointly provided a consultation session and an info seminar on 19 May 2018 for prospective applicants to PolyU via the Joint University Programmes Admissions System (JUPAS). Besides learning about admissions strategies and essential interview skills, they also had the opportunity to interact with professors from their preferred programmes. The FCE info seminar drew a full house, attracting over 120 secondary school students and parents. Prof. Michael Yam, Acting Associate Dean (Teaching), represented FCE to introduce the Broad Discipline of Construction and Environment, while Dr Daniel Chan of the Department of Building and Real Estate (BRE), Dr W.L. Lee of the Department of Building Services Engineering (BSE), Ir C.L. Kwan of the Department of Civil and Environmental Engineering (CEE), and Dr Wallace Lai of the Department of Land Surveying and Geo-Informatics (LSGI) introduced the departments respectively. There was also a separate seminar organized by CEE on the BSc programme in Environmental Engineering and Sustainable Development. It was a great way for prospective students to learn more about entrance requirements and the curricula for their programmes of interest.



FCE consultation session

2018 理大聯招課程諮詢日：入學攻略

理大於2018年5月19日為應屆聯招申請人舉辦了諮詢日，參加者除了可藉此了解最新的課程資訊和實用面試技巧，還有機會接觸心儀課程的教授。本院聯同轄下四大學系合辦了一場選科輔導和一場講座，後者吸引逾一百二十名中學生與家長參與，座無虛席。署理副院長(教務)任志浩教授代表本院講解「建設及環境廣泛學科課程」的資料，建築及房地產學系、屋宇設備工程學系、土木及環境工程學系，以及土地測量及地理資訊學系則分別派出陳煒明博士、李慧玲博士、關仲廉工程師及賴緯樂博士介紹所屬的學系。另外，土木及環境工程學系還特地為「環境工程與可持續發展學(榮譽)理學士課程」安排了一場講座。對聯招申請人來說，這是了解心儀課程入學條件和內容的大好機會。



FCE info seminar

FCE Promoted on Facebook Live

On the evening of 17 April 2018, the Faculty of Construction and Environment (FCE) was promoted in a Facebook Live session that was organized and hosted by the International Affairs Office. Associate Head (Teaching) of the Department of Building and Real Estate (BRE), Dr Daniel Chan, and his colleague Mr Wai Kei Kong introduced the Faculty and the full-time undergraduate programmes for international students offered by BRE. Other undergraduate programmes offered by the Department of Building Services Engineering, the Department of Civil and Environmental Engineering, and the Department of Land Surveying and Geo-Informatics were also highlighted. Questions from the audience on summer placement opportunities, job prospects, laboratory facilities, admission requirements etc. were answered by them after the presentation. The live chat is available for viewing at <https://www.facebook.com/polyuiaio/videos/10160381747535370/UzpfSTIYNtM5Nzc3MDgzMDQ4MT0xNjg4NjM1ODY3ODM5OTkw/>

面書直播介紹建設及環境學院

2018年4月17日黃昏，理大國際事務處為本院安排了一場面書(facebook)直播，由建築及房地產學系副系主任(教務)陳煒明博士及同系的江偉基先生介紹本院資料，以及該系接受國際學生申請的全日制學士課程。過程中亦有重點講述由屋宇設備工程學系、土木及環境工程學系，以及土地測量及地理資訊學系開辦的其他學士課程。兩人其後即場解答聽眾有關暑期實習、就業前景、實驗室設施、入學條件等查詢。有興趣重溫當日的現場對話，可登入 <https://www.facebook.com/polyuiaio/videos/10160381747535370/UzpfSTIYNtM5Nzc3MDgzMDQ4MT0xNjg4NjM1ODY3ODM5OTkw/>



LSGI Career Talk 2018

A career talk jointly organized by the Department of Land Surveying and Geo-Informatics (LSGI) and the executive committee of the LSGI Students' Society was held on 26 January 2018. After a welcome address and introduction from Ir Dr Wallace Lai, the BSc programme leader, students heard from a few alumni and industry representatives, including Sr Kenny Chan from the Hong Kong Institute of Surveyors (HKIS), Ms Iris Choi and Sr Raymond Choi from the Royal Institution of Chartered Surveyors (RICS), Ms Ellis Tong from Esri China (Hong Kong) Ltd. and Ms Pinky Lee from Castco Testing Centre Ltd. Sharing their work experiences and career paths in LSGI, the speakers provided much insight into the job prospects in fields like land surveying, geo-information technology, and underground utility surveying for future LSGI graduates. Students also had a chance to learn about the different routes to membership in professional organizations.

土地測量及地理資訊學系職業講座 2018

由土地測量及地理資訊學系與其學生會執行委員會聯合舉辦的職業講座於2018年1月26日舉行。理學士課程主任賴緯樂博士工程師致歡迎辭並作介紹後，學生們聽取了多位校友及業界代表的分享，包括香港測量師學會的陳志雄、皇家特許測量師學會的蔡楚玲和蔡偉文，以及來自Esri中國(香港)有限公司的唐麗儀和佳力高試驗中心有限公司的李紫琪。他們分享了工作經驗和業內的發展途徑，在土地測量、地理資訊技術和地下公用設施測量等領域，為土地測量及地理資訊學系未來的畢業生提供了很多就業前景的寶貴意見。此外，學生有機會了解成為專業組織會員的不同途徑。

Consultative Meeting cum Briefing Session on Selection of Major

A consultative meeting cum briefing session on selection of major was held on 9 February 2018 for students studying the Broad Discipline of Construction and Environment (BDCE). The opening address was delivered by Prof. Geoffrey Shen, Associate Dean (Teaching), before students separated into 4 groups to meet with the BDCE Academic Advisors to express their views, provide feedback and ask questions about BDCE. Arrangements for selection of a major were introduced by the Broad Discipline Leader, Dr Daniel Chan of the Department of Building and Real Estate (BRE). This was followed by an introduction of each department/ major respectively by Prof. Onyx Wai for the Department of Civil and Environmental Engineering (CEE), Dr Daniel Chan for BRE, Dr Horace Mui for the Department of Building Services Engineering (BSE), and Prof. John Shi for the Department of Land Surveying and Geo-Informatics (LSGI). A Q&A session on major selection was subsequently conducted for students to have their questions answered before they declare their major choices by the end of February 2018. It was an informative event for all concerned.

專業選修諮詢暨簡介會

2018年2月9日舉行了專為現正就讀建設及環境廣泛學科學生而設的專業選修諮詢暨簡介會。本院副院長(教學)沈岐平教授首先致開幕辭，然後學生分成四組與廣泛學科的學術顧問會面，發表意見、提供反饋並提出相關問題。接著，廣泛學科主任，建築及房地產學系陳煒明博士講解專業選修的安排，再由各學系代表分別介紹其學系或專業：韋永康教授介紹土木及環境工程學系；陳煒明博士介紹建築及房地產學系；梅國威博士介紹屋宇設備工程學系；史文中教授介紹土地測量及地理資訊學系。活動最後設有問答環節，在二月底提交專業選擇限期前解答學生的疑問。簡介會提供了豐富的資料，協助學生作出適當的專業選修決定。



Faculty Public Lectures 建設及環境學院公開講座



Prof. Andrew N. Baldwin, Emeritus Professor of Construction Management in the School of Architecture, Building and Civil Engineering at Loughborough University, gave a public lecture entitled "Sustainable Building: Opportunities, Challenges and Priorities." [6 December 2017]



Prof. David Waite, Scientia Professor at the University of New South Wales in Australia, gave a distinguished lecture entitled "Development of Redox-Active Flow Electrodes for High-Performance Desalination and Resource Recovery." [2 March 2018]



Prof. Kincho H. Law, Professor of Civil and Environmental Engineering at Stanford University in the US, gave a public lecture entitled "A Machine Learning Approach for System Characterization and Control Optimization—with Application to Wind Farm Power Production." [22 January 2018]



Prof. David Sedlak of the University of California at Berkeley gave a distinguished lecture entitled "Charting a Path to a More Secure Urban Water Future." [28 May 2018]



Prof. Harry Atwater, Howard Hughes Professor of Applied Physics and Materials Science and Director of the DOE Joint Center for Artificial Photosynthesis at the California Institute of Technology, gave a distinguished lecture entitled "Fueling Human Progress with Sunlight." [21 June 2018]



Prof. Yifan Yu, Professor in Urban Planning at Tongji University, gave a public lecture entitled "Planning for Aging-in-Place: Spatial Behavior & Behavioral Space." [21 June 2018]

Invitation for Programme Admissions

Both local and international students are welcome to apply.

Master of Science (MSc)/Postgraduate Diploma (PgD)

Building Services Engineering
Civil Engineering
Construction and Real Estate
Construction Law and Dispute Resolution
Environmental Management and Engineering
Facility Management
Fire and Safety Engineering
Geomatics (Geographic Information Systems)
Geomatics (Surveying)
High Performance Buildings
International Real Estate*
Project Management
Sustainable Urban Development

理學碩士 / 深造文憑

屋宇設備工程學
土木工程學
建築及房地產學
建築法及爭議解決學
環境管理及工程學
設施管理
消防及安全工程學
測繪及地理資訊學(地理資訊)
測繪及地理資訊學(測量)
高效能建築
國際房地產
項目管理
可持續城市發展學

Department

BSE
CEE
BRE
BRE
CEE
BSE
BSE
LSGI
LSGI
BSE
BRE
BRE
FCE

Bachelor's Degree

Broad Discipline of Construction and Environment [subject to approval]
Building Engineering and Management
Building Services Engineering
Civil Engineering
Environmental Engineering and Sustainable Development
Environmental and Occupational Safety and Health (Top-up Degree Programme)
Land Surveying and Geo-Informatics
Property Management
Sustainable Structural and Fire Engineering [new, subject to approval]
Surveying

學士學位

建設及環境廣泛學科 [尚待批核]
建築工程及管理學
屋宇設備工程學
土木工程學
環境工程與可持續發展學
環境及職業安全與健康
土地測量及地理資訊學
物業管理學
可持續結構及消防工程學 [最新課程, 尚待批核]
地產及建設測量學

Department

FCE
BRE
BSE
CEE
CEE
LSGI
BRE
CEE
BRE

Higher Diploma

Building Services Engineering
Building Technology and Management (Engineering)
Building Technology and Management (Surveying)
Civil Engineering
Geomatics

高級文憑

屋宇設備工程學
建築科技及管理學(工程)
建築科技及管理學(測量)
土木工程學
測繪及地理資訊學

Department

BSE
BRE
BRE
CEE
LSGI

*Offered at the PolyU Zhejiang outpost

For programme details, please contact the departments or visit our websites:

如欲查詢詳細課程資料，請聯絡相關學系或瀏覽學系網頁：

Department of Building and Real Estate (BRE) 建築及房地產學系 2766-5807/5808/7770 www.bre.polyu.edu.hk	Department of Building Services Engineering (BSE) 屋宇設備工程學系 3400-3597 www.bse.polyu.edu.hk	Faculty of Construction and Environment (FCE) 建設及環境學院 3400 8496 www.polyu.edu.hk/fce	Department of Civil and Environmental Engineering (CEE) 土木及環境工程學系 2766-6068 www.cee.polyu.edu.hk	Department of Land Surveying and Geo-Informatics (LSGI) 土地測量及地理資訊學系 2766-5968 www.lsgi.polyu.edu.hk
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Programme Entrance Requirements 課程入學要求

Please check the most up-to-date information on the Study@PolyU website at www.polyu.edu.hk/study.

請於 Study@PolyU 查閱最新資料，網址為 www.polyu.edu.hk/study.

Enquiries on Application and Admission 查詢申請及入學

Academic Secretariat
The Hong Kong Polytechnic University
Hung Hom, Kowloon, Hong Kong

香港理工大學教務處
香港九龍紅磡

Email 電郵：

asadmptg@polyu.edu.hk	Master's/ Postgraduate Diploma programmes 理學碩士及深造文憑課程
asadmft@polyu.edu.hk	Full-time Bachelor's degree & sub-degree programmes – local applicants 全日制學士學位及非學位課程 — 本地申請人
asnlocal@polyu.edu.hk	Full-time Bachelor's degree & sub-degree programmes – non-local applicants 全日制學士學位及非學位課程 — 非本地申請人

Forthcoming Events 最新消息

10th International Conference on Applied Energy

Dates: 22-25 August 2018

Venue: The Hong Kong Polytechnic University

Theme: Innovative Solutions for Energy Transitions

Details: <http://www.applied-energy.org/icae2018/>

Faculty Forum on FCE Strategic Plan 2018-2021 cum Applications for RGC Major Funding Schemes

Date: 30 August 2018 (Thursday)

Time: 14:00 – 17:00

Venue: Y304

24th Congregation and Faculty Prize Presentation Ceremony

Date: 6-7 November 2018

Venue: Jockey Club Auditorium, The Hong Kong Polytechnic University

CIB World Building Congress 2019

Dates: 17-21 June 2019

Venue: The Hong Kong Polytechnic University

Theme: Constructing Smart Cities

Details: <http://www.wbc2019.hk/>

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