

Contents 目錄

Dean's Message 院長的話	2
Awards & Achievements 專題特寫	3
PolyU in Top 100 of QS Rankings 理大躋身QS 世界百大學府	3
RGC Theme-based Research Scheme 2019/20 研資局2019/20年度主題研究計劃	4
RGC Early Career Award for CEE Scholar 土木及環境工程學系學者榮膺研資局「傑出青年學者」	4
Head of LSGI Elected to IEAS 土地測量及地理資訊學系系主任榮膺國際歐亞科學院院士	5
FCE Academics Recognized as Highly Cited Researchers 建設及環境學院學者入圍「論文獲引用次數最多」研究員	5
CEE Scholar Strikes Gold in Germany 土木及環境工程學系學者德國摘金	6
2018 Hong Kong Green Innovations Award 2018年香港綠色創新大獎	6
Fire Engineering Excellence Award for BSE Scholar 屋宇設備工程學系學者榮獲消防卓越大獎	6
CEE Scholar Honoured by AIT 土木及環境工程學系學者獲機管局研究撥款	7
BSE Scholar Promoted to Editor of Top Energy Journal 屋宇設備工程學系學者升任權威能源學期刊編輯	7
Young Scholar Award for LSGI Assistant Professor 土地測量及地理資訊學系助理教授獲青年科學家獎	8
Best Paper Awards for LSGI PhD Students 土地測量及地理資訊學系博士生獲優秀論文獎	8
Best Student Presentation Award for BRE PhD Student 建築及房地產學系博士生奪最佳報告獎	9
Top Prize for BSE Postgraduate in National Competition 屋宇設備工程學系研究生全國賽奪一等獎	9
Sylff Research Abroad Award for BRE PhD Student 建築及房地產學系博士生獲Sylff 海外研究獎	10
Head of BRE Appointed Able Professor in Construction Health and Safety 建築及房地產學系系主任履任安保建造業健康與安全教授席	11
Faculty Awards for Outstanding Performance/ Achievement 2018/19 2018/19年度學院特設卓越表現/成就獎	12
FCE Dean's Awards 2019 院長特設傑出教職員獎2019	12
FCE Awards for Outstanding PhD Theses 2018/19 建設及環境學院2018/19年度「傑出 博士論文獎」	15
Research Activities 研究薈萃	16
Results of RGC Competitive Funding Schemes 2019/20 香港研究資助局2019/20年度競爭 性撥款結果	16
NSFC Research Grants 國家自然科學基金資助本院學者	18
CEE Scholar Supported by Airport Authority HK 土木及環境工程學系學者獲機管局研究撥款	19
HK Shorelines Get a Makeover 以環保磚優化香港海岸線	19
HK Scholars Programme 2019 香江學者計劃2019	19
RGC Visit to Review a TRS Project 研資局代表到訪檢視獲資助項目進度	20
Large Equipment Fund for Research and Teaching 科研及教學大型設備基金	20
FCE Matching Fund for External Competitive Grants 建設及環境學院校外競爭性撥款配對基金	21
FCE Start-up Fund for New Recruits 建設及環境學院新入職人員啟動基金	21
Staff News 教職員消息	22
Former Head of BSE Becomes Emeritus Professor 屋宇設備工程學系前系主任獲榮休教授頭銜	22
New Academic Staff 新教學人員	22
LSGI Scholar to Serve on Editorial Boards of Journals 土地測量及地理資訊學系學者獲邀出任學術期刊編務委員	24
Ex-RAP's New Appointment at HKUST 前助理教授(研究)加盟香港科技大學	24

Student News 學生消息	25
Belt and Road Scholarship 2019/20 2019/20一帶一路獎學金	25
CIOB (HK) Outstanding Student Award 2018/19 英國皇家特許建造學會(香港分會) 2018/19卓越學生獎	25
PolyU Entry Scholarship Award Ceremony 理大新生獎學金頒授儀式	26
Entry Scholarships for Outstanding MSc Applicants 新生獎學金吸引菁英學生入讀本院碩士課程	26
Meeting with 26th FCE Students' Association 院方與建設及環境學院第二十六屆學生會代表見面	27
Study Tours of BRE Students 建築及房地產學系學生遊學行	28
BSE Study Tour of Nagoya, Japan 屋宇設備工程學系學生名古屋遊學之旅	29
LSGI Study Tour to Rome and Pisa, Italy 土地測量及地理資訊學系同學意大利遊學之旅	29
Alumni News 校友消息	30
HKSAR Government Honours FCE Alumni 特區政府表揚本院校友	30
FCE Alumni Ambassadors 建設及環境學院畢業生獲委任為理大校友大使	30
Events 活動剪影	31
2 nd International Conference on Urban Informatics 第二屆城市信息學國際會議	31
3 rd International Conference on Bioresources, Energy, Environment, and Materials 2019 第三屆國際生物資源、能源、環境及物料會議	32
11 th Asia-Pacific International Conference on Lightning 第十一屆亞太國際防雷研討會	32
13 th International Conference of the Eastern Asia Society for Transportation Studies 第十三屆東亞運輸研究學會國際研討會	33
Eurasian OpenSEES Days 地震工程模擬計算平台歐亞研討會	33
CIB World Building Congress 2019 2019 CIB 世界建築大會	34
IStructE Delegates Visit FCE 英國結構工程師學會代表到訪	34
Opening of Joint GNSS Research Laboratory 全球導航衛星系統聯合研究實驗室揭幕	35
Signing Ceremony for Joint Low-voltage Innovation Laboratory 成立「聯合低壓創新實驗室」簽約儀式	35
Technical Seminar on Modular Integrated Construction 組裝合成建築法技術研討會	36
Forum for HK and Guangdong to Collaborate on PV Development 太陽能光伏發電粵港合作論壇	36
2019 China Innovation and Entrepreneurship Fair 2019年中國創新創業成果交易會	37
25 th Hong Kong International Education Expo 第二十五屆香港國際教育展	37
Collaboration Meeting with the HK-ZH-Macau Bridge Administration Bureau 港珠澳大橋管理局代表來訪相談合作事宜	38
Collaboration with Government in Smart City Tree Management Project 與政府合作推行智慧城市樹木管理計劃	38
Academic Exchange between PolyU and NJU 理大與南京大學作學術交流	39
RICS Accreditation Visit 設施管理理學碩士課程繼續獲RICS認證	39
Trinity College 2019 Summer Field Course 美國聖三一學院師生來訪	40
Secondary Students from GBA Visit FCE 大灣區中學生參觀建設及環境學院	40
FCE Annual Forum 建設及環境學院周年論壇	41
Orientation for TPg Students 碩士課程迎新活動	41
Orientations for New Undergraduates 本科生迎新活動	42
PolyU Summer Programme 2019 理大暑期活動 2019	42
Faculty Public Lectures 建設及環境學院公開講座	43

Dean's Message 院長的話



The year 2019, particularly the second half of 2019, has been an unusual year for Hong Kong and The Hong Kong Polytechnic University. Although we stayed away from the campus for some time due to the social unrest, we have strived to do our best in terms of teaching, research, and services to the community. In addition to 6 of our major

undergraduate programmes receiving full accreditation from the Hong Kong Institution of Engineers, we have started a new BEng (Honours) degree programme in Structural and Fire Safety Engineering in September 2019. We also launched a new MSc programme in Urban Informatics and Smart Cities for 2020/21. These new programmes not only keep up with the latest advances in technology, but also address the practical needs of industry and society.

On the research front, our faculty has continued to reap rewards for their efforts: the Hong Kong Research Grants Council (RGC) has awarded us 1 grant from the Theme-based Research Scheme, 4 grants from the Research Impact Fund, as well as more than thirty grants from the General Research Fund (GRF)/ Early Career Scheme. 3 of our academics have been recognized as Highly Cited Researchers by the Web of Science, while the Head of our Department of Land Surveying and Geo-Informatics has been elected to the International Eurasian Academy of Sciences. Moreover, in the 2019 QS World University Rankings by Subject, PolyU was ranked 15th in the world and 1st in Hong Kong for the subject of Civil and Structural Engineering and in the top 20 for the discipline of Architecture/ Built Environment.

Serving our community has remained one of our priorities. The CIB World Building Congress was held in June 2019 by one of our departments for more than 400 scholars and industry practitioners from about 30 countries. The Head of our Department of Building and Real Estate was also honoured in PolyU's Endowed Professorship Scheme, becoming the fourth academic in our Faculty to hold such a distinguished appointment for his achievements.

With the Chinese New Year in full swing, I am confident our Faculty will go from strength to strength in 2020. Let's hope better times lie ahead for PolyU and the city of Hong Kong.

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 對香港和理工大學而言,2019年一尤其是下 半年,是不平凡的一年。我們雖因社會不穩而需暫離 校園,但仍在教研與社會服務上力求卓越。繼本院六 項主要本科課程獲香港工程師學會全面認可, 我們更於2019年九月開辦全新的「結構及消防安全 工程學」(榮譽)工學士課程:「城市信息學與智慧 城市」理學碩士課程亦正招收2020/21學年首屆新生。 這些新課程不僅與科技發展同步,亦緊貼業界與社會 的實際需要。

科研方面,本院的收獲持續豐盛:獲香港研究 資助局「主題研究計劃」、「研究影響基金」及 「優配研究金/傑出青年學者計劃」撥款的項目分別 有一個、四個及三十多個:三位學者入選 Web of Science「獲引文次數最多研究員」;土地測量及地理 資訊學系系主任晉身國際歐亞科學院院士。另外,根 據2019年QS世界大學分科排名,理大的土木及結構工 程學冠絕香港,在全球位居第十五名,至於建築/建造 環境領域,亦躋身二十大之列。

服務社會依然是我們其中一項要務。由本院轄下 學系於2019年六月主辦的CIB國際建築工程研究與 創新理事會世界建築大會,吸引來自約三十個國家的 四百多位學者和業界人士出席。建築及房地產學系系 主任在年內獲理大的勵學教授冠名計劃表揚,成為本 院第四位憑傑出成就而獲此殊榮的學者。

春節將至,我深信建設及環境學院在新一年將 更上層樓,亦期盼理大以至香港漸入佳境。

> 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

PolyU in Top 100 of QS Rankings

In the latest QS (Quacquarelli Symonds) World University Rankings 2020, PolyU was ranked 91st, up from last year's position of 106th, as a result of its outstanding academic and research achievements. In Asia alone, PolyU was ranked 24th. A recognition of its efforts in teaching and research, the jump in rankings from the year before is highly encouraging.

Altogether, 1000 tertiary institutions from 82 countries and regions were ranked based on surveys of 94,000 academics and 44,000 hiring managers. 11.8 million research papers and 100 million citations were also analyzed to determine the research impact made by the universities, one of the factors affecting the overall ranking. Other factors included academic standing, graduate employability, student-staff ratio, and internationalisation.

According to the QS World University Rankings by Subject 2019, the Faculty of Construction and Environment (FCE) has 2 disciplines in the top 20. The ranking for Architecture/ Built Environment was in 20th place, while Civil and Structural Engineering was in 15th place.

理大躋身QS 世界百大學府

臺秀學者

在最新公佈的QS 2020世界大學排名榜上,理大 從去年的第一百零六位躍升至第九十一位,足證其 學術及科研成就卓越。在亞洲,理大更高躆第二十 四位。排名躍升,顯示理大在教研兩方面均有長足 進展,叫人鼓舞。

成績斐然

QS根據對九萬四千位學者及四萬四千名招聘經理 的調查結果,從八十二個國家及地區選出全球首一千 家學府。該機構亦分析了一千一百八十萬份研究論文 及一億項引文,以釐定各大學的研究影響力,作為 決定整體排名的其中一個指標。其他指標則包括學術 地位、畢業生就業情況、師生比例及大學的國際化 程度。

根據QS 2019世界大學分科排名,建設及環境 學院在兩個學術領域均躋身二十大之列:分別為排名 第二十的「建築/建造環境」,以及位居第十五的 「土木及結構工程學」。



RGC Theme-based Research Scheme 2019/20

Prof. Asif Usmani, Head of the Department of Building Services Engineering (BSE), has recently been awarded funding of HK\$33.333 million from the RGC Theme-based Research Scheme for his project entitled "SureFire: Smart Urban Resilience and Firefighting." Addressing the key scientific challenges of smart firefighting and emergency response to make SureFire-based critical event forecasting technically possible and urban infrastructure more resilient to the fire hazards, the project is expected to last for 5 years, from 1 January 2020 to 31 December 2024. The project team includes Prof. Heng Li of the Department of Building and Real Estate (BRE), Dr Qixin Wang of the Department of Computing, Dr Fu Xiao and Dr Xinyan Huang of BSE, Prof. John Shi of the Department of Land Surveying and Geo-Informatics (LSGI), Prof. George Huang of the University of Hong Kong, Prof. Xinzheng Lu of Tsinghua University, Prof. Jose Torero of the University College London, and Dr Stephen Welch of the University of Edinburgh.

This is the third FCE project that has been funded consecutively by the RGC Theme-based Research Scheme. In 2017/18, Prof. Tao Wang's project on photochemical air pollution in highly urbanized subtropical regions received similar funding, followed by Prof. Jin-Guang Teng's project on sustainable marine infrastructure enabled by the innovative use of seawater sea-sand concrete and fibre-reinforced polymer composites in 2018/19.

RGC Early Career Award for CEE Scholar

Dr Yi Jiang of the Department of Civil and Environmental Engineering (CEE) has been selected for an Early Career Award 2019/20 from the Hong Kong Research Grants Council for his project entitled "Advanced Nanocomposite Membranes Synthesized by An Aerosol-assisted Fabrication Approach for Water and Wastewater Treatment." Dr Jiang began his academic career at PolyU in July 2017.

研資局2019/20年度主題研究計劃

屋宇設備工程學系系主任Asif Usmani教授,最近 獲香港研究資助局主題研究計劃撥款三千三百三十三 萬三千港元,開展「SureFire:智慧城市災害防控和 火災應急研究」。該研究針對發展智能消防系統和 災難應變機制,以便更準確預測災害演變和增強城市 基建防火能力所面對的技術挑戰,預計於2020年1月 1日至2024年12月31日進行,為期五年。研究團隊 成員包括建築及房地產學系的李恆教授、電子計算 學系的王啟新博士、屋宇設備工程學系的肖賦博士和 黃鑫炎博士、土地測量及地理資訊學系的史文中 教授、香港大學黃國全教授、清華大學陸新征教授、 倫敦大學學院Jose Torero教授,以及愛丁堡大學的 Stephen Welch博士。

建設及環境學院已連續三年成功獲研資局主題 研究計劃撥款:在2017/18年度,王韜教授就亞熱帶 城市光化學空氣污染開展的研究率先獲得資助;滕錦 光教授則在2018/19年度為本院再下一城,憑研究以 海水海砂混凝土結合纖維增強複合材料製成的新型 可持續海洋工程結構而獲得該計劃支持。



Prof. Asif Usmani (left) explaining the dynamics of a fire demonstration

土木及環境工程學系學者榮膺 研資局「傑出青年學者」

土木及環境工程學系的蔣毅博士,最近以「氣溶 膠途徑輔助合成納米複合水處理膜」項目,獲香港研 究資助局頒發2019/20年度「傑出青年學者獎」。 蔣博士於2017年七月加入理大,開始其學術事業。



Dr Yi Jiang

Head of LSGI Elected to IEAS

For his outstanding achievements in geographic information science, remote sensing, urban informatics and smart cities, Prof. John Shi, Head of the Department of Land Surveying and Geo-Informatics (LSGI), has been elected to be an academician of the International Eurasian Academy of Sciences (IEAS), an organization established in 1996 to integrate the sciences, technology, and the economy for a harmonious society. Joining a worldwide community of renowned scientists and experts from the natural sciences, engineering, and social sciences, he was honoured in a ceremony scheduled for 16 November 2019 in Beijing at the China Science Center of IEAS.

土地測量及地理資訊學系系主任 榮膺國際歐亞科學院院士

土地測量及地理資訊學系系主任史文中教授因在 地理信息科學、遙感、城市信息學及智慧城市研究上 成就卓越,最近獲選為國際歐亞科學院院士。國際 歐亞科學院於1996年創立,是匯聚科學、科技及經濟 學於一身的學術組織,成員有來自世界各地的自然 科學、工程學及社會科學知名學者和專家。頒授院士 儀式定於2019年11月16日在學院設於北京的中國科學 中心舉行。



Prof. John Shi

FCE Academics Recognized as Highly Cited Researchers

3 academics of the Faculty of Construction and Environment (FCE) are among the world's most influential researchers of the past decade according to a recent list compiled by the Web of Science. In the field of engineering, Prof. Hongxing Yang of the Department of Building Services Engineering (BSE) and Prof. Kwok Wing Chau of the Department of Civil and Environmental Engineering (CEE) have been named. Another CEE colleague on the list is Prof. Shun Cheng Lee, who is being recognized in a cross field. All three of them are being recognized for having produced multiple highly-cited papers that rank in the top 1% by citations for their respective fields. The list can be found at https://recognition.webofsciencegroup.com/awards/hig hly-cited/2019/

建設及環境學院學者入圍 「論文獲引用次數最多」研究員

根據Web of Science網站最新編製的排名,建設 及環境學院有三位學者晉身全球近十年最具影響力的 研究員。在工程學範疇,屋宇設備工程學系的楊洪興 教授以及土木及環境工程學系的周國榮教授均榜上有 名。土木及環境工程學系的李順誠教授,則於 學科範疇獲表揚。三位教授撰寫的多篇著作, 在各自所屬範疇中均入選首1%最常獲引用的論文。 查閱有關排名,可鏈接https://recognition.webofsciencegroup.com/awards/highly-cited/2019/。



Prof. Shun Cheng Lee



Prof. Kwok Wing Chau



Prof. Hongxing Yang

CEE Scholar Strikes Gold in Germany

At the International Trade Fair for Ideas, Inventions, New Products (iENA) held in Germany from 31 October to 3 November 2019, Prof. Hai Guo of the Department of Civil and Environmental Engineering (CEE) and his team received a Gold Medal for the world's first semi-online measuring device for acidic ultrafine particles. Their project also received a Special Merit Award from the National Research Council of Thailand.

土木及環境工程學系學者德國摘金

在2019年十月三十一日至十一月三日於德國舉行 的「國際創意、發明及新產品展」中,以土木及環境 工程學系郭海教授為首的團隊,憑全球首創的大氣 酸性超細粒子監測器榮獲金獎。此項目亦獲泰國國家 研究局頒發特別優異獎。



Prof. Hai Guo and his team with their awards

2018 Hong Kong Green Innovations Award

An innovation of building sustainable low-noise pavements with waste tyre rubber and warm mix additives has won a Silver Award in the 2018 Hong Kong Green Innovations Awards (HKGIA). Developed by researchers in the Department of Civil and Environmental Engineering (CEE), the innovation provides multiple environmental benefits, including recycling waste tyres, reducing energy consumption and emissions during construction as well as reducing the noise level from a tyre-road by as much as 3 decibels. Led by Dr Zhen Leng, the research team included Dr Wing-Tat Hung, Dr Lam-Wah Cheung, Prof. Shun-Cheng Lee, and Dr Huayang Yu.

As one of the two annual competitions constituting the Hong Kong Awards for Environmental Excellence, the HKGIA encourages organizations to address problems with innovative green ideas that have been turned into tangible gadgets, equipment or systems, resulting in benefits to the environment, organization and the community.

2018年香港綠色創新大獎

由土木及環境工程學系人員研發的環保低噪音路面材料,在2018年香港綠色創新大獎中勇奪銀獎。 這項新發明以廢棄輪胎橡膠和溫拌添加劑為原料, 既能把舊輪胎循環再用,施工時更可節能和減少 排放廢氣,行車時的噪音亦較傳統瀝青路面下降約三 分貝。得獎團隊由冷真博士帶領,成員包括熊永達 博士、張林華博士、李順誠教授及于華洋博士。

一年一度的香港綠色創新大獎,是組成香港環境 卓越大獎的兩項大型比賽之一,旨在鼓勵參賽機構 運用創意,為解決環境問題研發實用的工具、設備或 系統,最終使環境、機構本身及社會皆有所得益。



Dr Zhen Leng with the award

Fire Engineering Excellence Award for BSE Scholar

Dr Xinyan Huang of the Department of Building Services Engineering (BSE) was recently honoured with a Grand Award (Research and Development) in the Fire Engineering Excellence Award 2019. Organized by the Fire Engineering Division of the Hong Kong Institution of Engineers (HKIE), the award gave recognition to his project entitled "Critical drip size and blue flame shedding of dripping ignition in fire."

屋宇設備工程學系學者榮獲消防 卓越大獎

屋宇設備工程學系的黃鑫炎博士,最近在消防工 程卓越大獎2019中勇奪「研究與開發」卓越大獎。該 獎由香港工程師學會消防分部主辦,黃博士的獲獎論 文題為「火災中液體可燃物滴落點火的臨界條件」。

CEE Scholar Honoured by AIT

Prof. Kam-Tim Chau of the Department of Civil and Environmental Engineering (CEE), an alumnus of the Asian Institute of Technology (AIT), was inducted into the AIT Hall of Fame on 24 October 2019 by Her Royal Highness Princess Maha Chakri Sirindhorn of Thailand. The AIT Hall of Fame recognizes and honours the accomplishments and contribution of senior alumni and others who bring pride and inspiration to their profession, society, and AIT. So far, only 21 inductees have been honoured: 12 in 2010 and 9 in 2019 on the occasion of AIT's 60th Anniversary Celebration. Prof. Chau is the first inducted member from Hong Kong and the youngest of all the awardees.

土木及環境工程學系學者獲亞洲 理工學院表揚

畢業於亞洲理工學院的土木及環境工程學系 周錦添教授於2019年十月二十四日,在由泰國詩琳通 公主殿下主禮的儀式上,正式晉身母校的名人堂。 此名人堂旨在表揚資深校友及其他傑出人士的成就, 肯定他們對所屬專業、社會和學院的卓越貢獻,至今 只有二十一人獲此榮耀;周教授除了是首位入選的 香港人,也是歷來最年輕的得獎者。

其中十二位在2010年晉身此列,而另外9位則於 2019年學院六十週年校慶時獲列入名人堂。



Prof. Kam-Tim Chau (seated far right) at the ceremony

BSE Scholar Promoted to Editor of Top Energy Journal

Prof. Hongxing Yang of the Department of Building Services Engineering (BSE) has been promoted to editor of the *International Journal of Applied Energy* by Elsevier after serving the journal as associate editor for many years. A top Science Citation Index (SCI) journal in the field of energy applications, the journal's current Impact Factor is 8.426, ranking 1/168 in the Category of Engineering (Subcategory: Building and Construction) by CiteScore and 7th among 579 SCI journals in Engineering released by ESI statistics recently. About 1,600 papers were published by the journal in 2018 out of more than 12,000 submissions.

Prof. Yang received an Excellent Editor Award from the journal in 2016 and successfully organized the 10th International Conference on Applied Energy in 2018 at PolyU. The journal can be found at

https://www.journals.elsevier.com/applied-energy.

屋宇設備工程學系學者升任權威 能源學期刊編輯

屋宇設備工程學系的楊洪興教授,最近獲 Elsevier出版社旗下的《國際應用能源學報》擢升為編輯。 該刊是能源應用方面的權威刊物,科學引文指數(SCI) 極高,現時的影響系數高達 8.426,在CiteScore工程 類別(子類別:建築及建造)的一百六十八本刊物中排名 第一:而根據最近公佈的 ESI統計數據,它亦在五百七 十九本 SCI 工程學期刊中高躆第七位。2018年,在逾 一萬二千份投稿中,只有約一千六百篇論文獲採納 刊登。

楊教授出任《國際應用能源學報》副編輯多年, 早於2016年已獲頒發「優秀編輯獎」,並於2018年在 理大成功籌辦第十屆國際應用能源研討會。 該刊的網址是https://www.journals.elsevier.com/applied-energy。



Prof. Hongxing Yang

Young Scholar Award for LSGI Assistant Professor

At the 4th National Quantitative Remote Sensing Forum held in Nanjing, China, from 15 to 16 June 2019, Dr Xiaolin Zhu of the Department of Land Surveying and Geo-Informatics (LSGI) was honoured with the Li Xiaowen Remote Sensing Young Scholar Award. Prof. Li Xiaowen was a renowned scientist in remote sensing and an academician of the Chinese Academy of Sciences (CAS). Established by the State Key Laboratory of Remote Sensing Science, the Institute of Remote Sensing and Digital Earth, CAS & Beijing Normal University, the awards are presented to five young scholars in the field of remote sensing every two years.

土地測量及地理資訊學系助理教授 獲青年科學家獎

土地測量及地理資訊學系的朱孝林博士,於2019 年六月十五至十六日在南京舉行的第四屆全國定量遙感 學術論壇上獲頒「李小文遙感科學青年獎」。李小文 教授為中國科學院院士,也是知名的遙感學家。「李小 文遙感科學青年獎」由遙感科學國家重點實驗室、 中國科學院遙感與數字地球研究所及北京師範大學共同 創立,每兩年頒授予五位優秀的年輕遙感科學家。



Dr Xiaolin Zhu (3rd from left)

Best Paper Awards for LSGI PhD Students

At the annual forum of the International Association of Chinese Professionals of Global Positioning Systems (CPGPS) held in Wuhan, China, from 20 to 22 July 2019, two PhD students from the Department of Land Surveying & Geo-Informatics (LSGI) were honoured with Best Paper Awards. For his paper entitled "Investigation of Attenuation Impact of High Speed Train Window Glass on GNSS Signals," Mr Yangzhao Gong received a 1st-order Best Paper Award, while Mr Shiwei Yu received a 2nd-order Best Paper Award for his "Study of ionosphere-related parameters' variation based on GNSS data under the impact of the 2012 tropical cyclone Tembin in Hong Kong region." Both Mr Gong and Mr Yu are supervised by Dr George Liu of LSGI.

土地測量及地理資訊學系博士生獲 優秀論文獎

在全球華人導航定位協會於2019年七月二十至 二十二日於武漢舉行的周年學術論壇上,土地測量及 地理資訊學系兩名博士生獲頒優秀論文獎:龔陽昭 先生憑題為「高鐵玻璃對GNSS信號減弱影響的探究」 的論文榮獲一等獎;俞世煒先生則以"基於GNSS觀測 資料,探究2012年颱風天秤過境前後,香港區域上空 電離層相關参數的擾動"一文獲得二等獎。兩人均由 劉志趙博士擔任論文導師。



Dr George Liu (left) with his PhD students

Best Student Presentation Award for BRE PhD Student

A PhD student from the Department of Building and Real Estate (BRE), Mr Abdullahi Saka, has come first in the Best Student Presentation Award (Category: Smart Planning, Design and Construction, Smart Environment) organized by the Hong Kong PolyU Student Chapter of the International Council for Research and Innovation in Building and Construction (CIB). He received an award certificate and a cash cheque of \$1,000 at the closing ceremony of the CIB World Building Congress on 20 June 2019. His winning paper was entitled "Adoption of Building Information Modelling (BIM) in Small and Medium-Sized Enterprises in Developing Countries: A System Dynamics Approach." It was co-authored with Dr Daniel Chan and Dr Francis Siu of BRE.

建築及房地產學系博士生奪 最佳報告獎

在由國際建築工程研究與創新理事會 (CIB)理工 大學分會主辦的優秀學生報告獎中,建築及房地產 學系博士生Abdullahi Saka先生於「智慧規劃、設計 建造及智慧環境」組別中獲得第一名。在2019年六月 二十日的CIB世界建築大會閉幕儀式上,他獲頒發 獎狀及價值一千元的現金支票。其得獎論文是與同學 系的陳煒明博士及蕭明鋒博士合著,題為「在發展 中國家的中、小企業應用建築資訊模型:系統動態學 模式」。



Mr Abdullahi Saka with Dr Daniel Chan (right) and Dr Francis Siu (left)

Top Prize for BSE Postgraduate in National Competition

An MEng student in the Department of Building Services Engineering (BSE), Miss Qingyan Chen, has won the 1st prize in the 13th Chinese National Competition (South China Region) held in Guangzhou on 21 June 2019 for college students majoring in Refrigeration and Air-conditioning. Miss Chen is a student of Prof. Shiming Deng, whose master's students also won 2nd prizes in the same competition in 2017 and 2018.



Miss Qingyan Chen and her award

屋宇設備工程學系研究生全國賽奪 一等獎

於2019年六月二十一日在廣州舉行的第十三屆 中國(華南地區)制冷空調行業大學生科技競賽中,屋宇 設備工程學系工學碩士生陳青欣小姐奪得研究生創新 設計一等獎。陳同學師承鄧仕明教授,而在2017及 2018年的同一比賽中,鄧教授的碩士班學生均曾贏得 二等獎。



Miss Chen's award certificate

Sylff Research Abroad Award for BRE PhD Student

A PhD student under the supervision of Prof. Geoffrey Shen of the Department of Building and Real Estate (BRE), Mr Xiao Li, received a Sylff Research Abroad Award of US\$5000 for a short stay at the Lawrence Berkeley National Laboratory to conduct research related to his doctoral dissertation. Mr Li's research interest is in project management, particularly for construction industrialization and digitalization. His investigation of smart solutions and approaches for constraints management in the construction industrialization process led to the award.

The Sylff Association was launched in April 2017 to commemorate Sylff's 30th anniversary. It brings together current and graduated fellows, steering committee members at 69 Sylff institutions, staff of the Nippon Foundation and the Tokyo Foundation for Policy Research.

建築及房地產學系博士生獲 Sylff海外研究獎

由沈岐平教授指導的建築及房地產學系博士生 李驍先生,最近獲Sylff海外研究獎頒發五千美元 獎金,於美國勞倫斯·伯克利國家實驗室進行有關其 博士論文的短期研究。李先生主力研究項目管理, 尤擅建築工業化及數碼化,今次是因為針對建築工業 化程序中的限制管理研發出智慧方案及辦法而獲獎。

為慶祝Sylff全球學人計劃三十周年,Sylff協會於 2017年四月正式成立,成員包括現時及曾經獲該計劃 資助的學人、六十九家Sylff院校的督導委員,以及 日本財團及東京財團政策研究所的職員。



Mr Xiao Li

Head of BRE Appointed Able Professor in Construction Health and Safety

Prof. Albert Chan, Head of the Department of Building and Real Estate (BRE), Associate Director of the Research Institute for Sustainable Urban Development, and Chair Professor of Construction Engineering and Management, has been appointed the Able Professor in Construction Health and Safety with effect from 1 August 2019. This is the fourth appointment for the Faculty of Construction and Environment (FCE) in PolyU's Endowed Professorship Scheme, which honours distinguished scholars for their outstanding academic and research achievements.

For more than three decades, Prof. Chan has conducted research on a wide range of topics across the broad field of construction engineering and management, including construction health and safety, project success, construction partnering, and public-private-partnership. He has authored and co-authored some 270 Science Citation Index (SCI) journal papers, leading to over 5,200 citations and an H-index of 38 according to the Web of Science Core Collection. He is on the Civil Engineering list of the Most Cited Researchers developed for ShanghaiRanking's Global Ranking of Academic Subjects 2016 by Elsevier. His outstanding contributions have earned him a string of awards and prizes, including the Hong Kong Institute of Project Management Achievement Awards (2014, 2015, 2017, 2018), the Asia Pacific Project Management Achievement Awards (2014, 2017, 2018), the First Class Scientific Advancement Award (2016), the Grand Award in the Community Excellence category, Distinguished Knowledge Transfer Awards (2016), Gold Medals in the 36th and 44th International Exhibition Inventions, New Techniques and Product, Geneva, Switzerland (2008, 2016), the Premier Award of the Chartered Institute of Building (CIOB) International Innovation & Research Awards in the Innovation Achiever's Award Category (2008, 2015), and Local Grand Prize Winner of the Construction Industry Council (CIC) Innovation Award (2015).

His current research interests focus on exploring how extreme hot and humid weather affects the health and productivity of construction workers and developing innovative devices to help improve their well-being.

建築及房地產學系系主任履任安保 建造業健康與安全教授席

建築及房地產學系系主任、可持續城市發展研究 院副院長暨建築工程及管理講座教授陳炳泉教授, 於2019年八月一日獲任命為「安保建造業健康與安全 教授」。這是理大設立「勵學教授冠名計劃」表揚 傑出學者的學術和科研成就以來,建設及環境學院第 四位獲此殊榮的學者。

三十多年來,他對建築工程和管理的領域進行了 廣泛的研究,包括建造業健康與安全,項目成功 因素,建築夥伴關係,建築公私營合作。陳教授有份 發表的Science Citation Index (SCI)期刊論文超過 270篇,在Web of Science Core Collection 中被 引用超過5200次,H-Index為38。他被愛思維爾 (Elsevier)列入2016年「全球土木工程學科高被引 學者」名單。陳教授更屢獲殊榮,包括香港項目管理 成就獎(2014,2015,2017,2018),亞太項目管理 成就獎(2014,2017,2018),一等科學進步獎(2016), 社區卓越傑出知識轉移大獎(2016),瑞士日內瓦第36 屆和第44屆國際發明展覽新技術和產品金獎 (2008,2016),英國特許建築學會(CIOB)創新成就獎 (2008,2015),以及建造業議會(CIC)創新大獎得主 (2015年)。

目前陳教授的研究興趣集中於探討極端炎熱潮濕 的天氣如何影響建築工人的健康和生產力,以及開發 創新設備以改善他們的福祉。



Prof. Albert Chan

Faculty Awards for Outstanding Performance/Achievement 2018/19

2 academics of the Faculty of Construction and Environment (FCE) have recently been selected for the Faculty Awards for Outstanding Performance/ Achievement 2018/19. Prof. Asif Usmani, Head of the Department of Building Services Engineering (BSE), was rewarded for his exceptional record in getting a grant of more than HK\$33 million in the 9th round of the RGC Theme-based Research Scheme at his first attempt, while his colleague Dr Joseph Lai was rewarded for his outstanding teaching. They each received a cash prize of \$10,000.

The annual Faculty Awards were established to motivate staff members to excel in their work performance and give recognition to those with distinguished achievements in the categories of Teaching, Research and Scholarly Activities, and Services.

2018/19年度學院特設卓越表現/ 成就獎

建設及環境學院兩位學者,最近榮獲學院頒發 2018/19年度「卓越表現/成就獎」,其中一位得獎人 為屋宇設備工程學系系主任Asif Usmani教授。他首度 申請研資局第九輪「主題研究計劃」,即成功獲批一 筆逾三千三百萬港元的撥款,創下驕人紀錄。憑傑出 教學表現而獲獎的黎鴻傑博士,同樣來自屋宇設備 工程學系。兩位得獎人獲現金獎一萬元。

「學院特設卓越表現/成就獎」分為教學、研究及 學術活動、服務幾個組別,每年頒發一次,旨在鼓勵 教學人員於工作上精益求精,並表揚有傑出成就的教職 員。



Prof. Asif Usmani (left) and Dr Joseph Lai (right)

FCE Dean's Awards 2019

The Faculty of Construction and Environment (FCE) is pleased that the following academics have been selected for the annual Dean's Awards for Highly-Cited Papers:

院長特設傑出教職員獎2019

本院多位學者喜獲選為年度院長特設傑出教職員 卓越表現獎,獎項包括高引用論文和科研經費兩個 類別。以下是高引用論文得獎者的詳情:

Awardee 獎學金得主	Title 項目	Authors 作者	Journal 刊物
Prof. Lin Lu (BSE) 呂琳教授	Review on Life Cycle Assessment of Energy Payback and Greenhouse Gas	PENG, JQ^ LU. L* YANG, HX	Renewable and Sustainable Energy Reviews
	Emission of Solar Photovoltaic Systems		Vol. 19, Pages 255-274 (Mar 2013)
Prof. Kwok-wing	Prediction of Rainfall Time Series Using	WU, CL [^] CHAU, KW*	Journal of Hydrology
Chau (CEE) 周國榮教授	Modular Artificial Neural Networks Coupled with Data preprocessing Techniques	FAN, C	Vol. 389, Pages 146-167 (Jul 2010)
Prof. Shuncheng Lee (CEE)	Rose-like Monodisperse Bismuth Subcarbonate Hierarchical Hollow	DONG, F [^] LEE, SC [*]	Journal of Hazardous Materials
李順誠教授	Microspheres: One-pot Template-free	WU, ZB HUANG, Y FU, M	Vol. 195, Pages 346-354 (Nov 2011)
	Fabrication and Excellent Visible Light Photocatalytic Activity and Photochemical Stability for NO Removal in Indoor Air	HO, WK ZOU, SC WANG, B	
Prof. Xiangdong Li (CEE)	Trace Metal Contamination in Urban Soils of China	LUO, XS^ YU, S# ZHU, YG# LI, XD*	Science of the Total Environment
李向東教授	UI CIIIIIa		Vol. 421, Pages 17-30 (Apr 2012)
Prof. Jinguang Teng (CEE)	Strengthening of Steel Structures with Fiber- Reinforced Polymer Composites	TENG, JG* YU, T FERNANDO, D	Journal of Constructional Steel Research
滕錦光教授			Vol. 78, Pages 131-143 (Nov 2012)
Prof. Tao Wang (CEE) 王韜教授	Summertime PM2.5 Ionic Species in Four Major Cities of China: Nitrate Formation in an Ammonia-deficient Atmosphere	PATHAK, RK^ WU, WS^ WANG, T*	Atmospheric Chemistry and Physics Vol. 9, Issue 5, Pages 1711-1722 (2009)

* Corresponding Author ^ PhD student/Postdoctoral Fellow of the Awardee # Non-PolyU author

In addition, 12 academics were selected for the Dean's Awards for Outstanding Achievement in Research Funding because of their success in securing external competitive research funding that meets the criteria for the Award (by securing at least ONE RGC GRF/ECS grant and achieving a total score of not less than 3 from the funding schemes recognized for the Award in the past 3 calendar years).

此外,十二位學者因為成功爭取外部科研經費獲選年 度院長特設傑出教職員卓越表現獎(科研經費),他 們過去三個曆年在認可的資助計劃中總分不少於三, 或過去五個曆年總分不少於四。詳情如下:

Awardee (Dept)	Allocation Date	Project Title (Funding Scheme)
Prof. Heng Li (BRE) 李恆教授	26 Jul 2016	Smart Construction Platform Based on Cloud BIM and Image Processing (Innovation Technology Fund - LSCM) 基於BIM雲和圖像處理技術的智慧建造管理平臺 (創新及科技支援計劃)
	28 Apr 2017	Facilitating the Diffusion of Building Information Modeling (BIM) in the Hong Kong Construction Industry: A Network Perspective (PICO – Public Policy Funding) 促進建築信息模型(BIM)在香港建築業擴散的擴散:網路視角
	26 Jan 2018	Construction Waste Sorting and Recycling Robot (Environment and Conservation Fund) 建築垃圾分類回收機器人(環境及自然保育基金)
	1 Jul 2018	Proactive Monitoring of Work-related MSD Risk Factors and Fall Risks of Construction Workers Using Wearable Insoles (RGC General Research Fund) 主動監測與工作相關的MSD風險因素和使用可穿戴鞋墊的建築工人的跌落風險 (研資局優配研究金)
Prof. Meng Ni (BRE) 倪萌教授	8 Mar 2016	A New Method for Simultaneous Plastic Waste Treatment and Electricity Generation Using High Performance Direct Waste Solid Oxide Fuel Cells (DW-SOFC) (Environment and Conservation Fund) 採用直接廢棄物燃料電池實現同時處理廢物和產生電能的新方法(環境及自然保育基金)
	1 Jul 2017	Layered Perovskite Materials for Protonic Ceramic Fuel Cell Cathode: Experimental and Computational Studies (RGC General Research Fund) 採用層狀鈣鈦礦材料作為質子陶瓷燃料電池陰極:實驗和計算研究(研資局優配研究金)
	1 Jul 2018	New Perovskite Anodes for Solid Oxide Fuel Cells Running on Hydrogen/Carbon Monoxide Mixture (RGC General Research Fund) 使用氫和一氧化碳為燃料的新的固體氧化物燃料電池鈣鈦礦陽極:實驗和計算研究 (研資局優配研究金)
	18 Sep 2018	Development of High Performance Flexible Zinc-Air Hybrid Batteries For Wearable Electronic Devices (Innovation Technology Fund – ITSP – Tier 3) 為可穿戴電子器件發展高性能的柔性鋅-空氣複合電池 (創新及科技支援計劃)
Prof. Shiming Deng (BSE) 鄧仕明教授	1 Jul 2016	A Novel Direct Expansion Based Standalone Enhanced Dehumidification Air Conditioning System for Improved Year-Round Indoor Humidity Control in Hot and Humid Climates (RGC General Research Fund) 熱濕地區全年運行除濕增強型直膨式空調系統(研資局優配研究金)
	1 Jul 2017	Inherent Operational Characteristics of a Direct Expansion Based Air Conditioner Having a Two-Sectioned Cooling Coil for Enhanced Output Cooling and Dehumidification Capacity and Improved Indoor Air Velocity Distribution (RGC General Research Fund) 用來改善製冷量,除濕能力及室內風速分佈的一個帶有雙冷卻盤管直膨空調系統的內在運行特性對的研究(研資局優配研究金)
	1 Jul 2018	Towards Even Frosting of the Outdoor Coil Along the Airflow Direction in a Space Heating Air Source Heat Pump for Improved Energy Efficiency and Occupant Thermal Comfort (RGC General Research Fund) 空氣源熱泵室外機組沿氣流方向的均匀結霜,以提高運行效率和使用者的熱舒適 (研資局優配研究金)
Prof. Lin Lu (BSE) 呂琳教授	19 Dec 2014	Development of Novel High Dispersed Transparent Heat Insulation Paints for Glass (Innovation Technology Fund – UICP - MGJR) 新型玻璃幕牆用高分散透明隔熱塗料的研發 (創新及科技支援計劃)
	1 Jul 2015	Investigating the Unsteady Film Pattern and Turbulence for Heat/Mass Transfer Performance of Falling Film Liquid Desiccant Air-Conditioning System (RGC General Research Fund) 降膜溶液除濕空調系统中加强傳熱傳質性能中非穩態液膜流態的研究(研資局優配研究金)
	1 Jul 2017	Enhancing the Heat and Mass Transfer of Plate Liquid Desiccant Dehumidifier with Bilayer Superhydrophilic Coating Considering the Solid-Liquid Interaction Effect (RGC General Research Fund) 利用自清潔涂層加强板式溶液除濕器的傳熱傳質研究(研資局優配研究金)
	13 Nov 2017	Development of a Hollow Fiber Membrane-based Seawater Desalination System Driven by a Hybrid of Solar Energy and Heat Pump [Innovation Technology Fund – ITSP - TCFS] 太陽能熱泵聯合驅動的中空纖維膜海水淡化系統研究 (創新及科技支援計劃)
	15 Nov 2018	Active Heat Transfer Enhancement Method of Paraffin Thermal Storage by Foam Structure Together with Vibration Particles (NSFC/RGC Joint Research Scheme) 泡沫結構結合共振顆粒的石蠟相 變儲能主動傳熱強化方法研究

Awardee (Dept)	Allocation Date	Project Title (Funding Scheme)
Prof. Siu Lai Chan (CEE) 陳紹禮教授	1 Jul 2014	Second-order and Advanced Analysis of Arches and Curved Structures (RGC General Research Fund) 拱型與彎曲結構的二階及高階分析 (研資局優配研究金)
	1 Jul 2015	Second-Order Analysis of Flexible Steel Cable Nets Supporting Debris (RGC General Research Fund) 防土石流柔性鋼絲網的二階分析(研資局優配研究金)
	1 Jul 2017	Second-Order Analysis of Shallow Dome Structures Made of Tapering Members (RGC General Research Fund) 由錐形構件製成的淺圓頂結構的二階分析 (研資局優配研究金)
	1 Jul 2018	Joint-based Second Order Direct Analysis for Domed Structures Allowing for Finite Joint Stiffness (RGC General Research Fund) 有限接口剛度圓頂結構的聯合二階直接分析 (研資局優配研究金)
Prof. Kwok Fai Chung (CEE) 鍾國輝教授	1 Jul 2016	Experimental Investigation Into Ductility of High Strength S690 Steel Plates and Welded Connections Under Cyclic Loadings (RGC General Research Fund) 高强度S690鋼板以及焊接節點在循環荷載下的延性的試驗研究(研資局優配研究金)
	1 Jul 2017	Qualifying Welded Connections and Weldments of High Strength S690-QT Steel Members in Seismic Resistant Design (RGC General Research Fund) 規範高强度S690-QT鋼構件在抗震設計中的焊接連接及焊材的選用(研資局優配研究金)
	1 Jul 2018	Adequacy in Resistance and Ductility of High Strength S690 Steel Welded Sections with Multi-pass Welding under Monotonic and Cyclic Deformations (RGC General Research Fund) 高强度S690鋼多道焊焊接截面在單調荷載以及循環荷載下的結構性能(研資局優配研究金)
Prof. Jianguo Dai (CEE) 戴建國教授	17 Aug 2016	Fundamental Research on Materials and Structural Design of Green Low-Carbon Geopolymer Concrete (NSFC – Key Program – sub-project) 綠色低碳地聚物混凝土材料和結構設計的基礎研究
	1 Jul 2017	Prefabricated Ultra-High-Performance Concrete Sandwich Walls with Tubular FRP Connectors (RGC General Research Fund) 帶有管型FRP連接件的超高性能混凝土預制三明治牆體(研資局優配研究金)
	12 Dec 2017	Research and Development on Geopolymer Cement-based 3D Printing Technology for Modern Building Industry (Innovation Technology Fund – ITSP – Tier 3) 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 (創新及科技支援計劃)
	27 Feb 2018	Development of an Energy-saving Coating System for Sustainable Building Envelope (Environment and Conservation Fund) 混凝土建築用多功能節能降溫塗料的研發 (環境及自然保育基金)
Prof. Yiqing Ni (CEE) 倪一清教授	1 Jul 2016	SHM-Oriented Blind Source Separation Using a Bayesian Approach (RGC General Research Fund) 面向結構健康監測的貝葉斯盲源分離技術 (研資局優配研究金)
	1 Jul 2017	Quantification of the Uncertainty in Forecasts Using Structural Health Monitoring Data: A Bayesian Approach (RGC General Research Fund) 結構健康監測數據用於預測的不確定性定量化分析:貝葉斯方法(研資局優配研究金)
	1 Jul 2018	Model-free, Response-only Structural Damage Detection by Variational Sparse Bayesian Learning (RGC General Research Fund) 基於變分稀疏貝葉斯學習及僅利用響應的無模型結構損傷監測 (研資局優配研究金)
Prof. Chi Sun Poon (CEE) 潘智生教授	2 Mar 2017	Development of a Novel Way to Maximize the Use of Waste Glass in Precast Alkali Activated Cement Mortar/Concrete (Environment and Conservation Fund) (環境及自然保育基金)
	1 Jul 2017	Effects of Degree of Accelerated Carbonation of Recycled Aggregates on the Macro- and Micro-Structural Properties of Recycled Aggregate Concrete (RGC General Research Fund) (研資局優配研究金)
	24 Nov 2017	Cementless Production of Lightweight Aggregates from Incineration Bottom Ash (IBA) and Concrete Slurry Waste (CSW) (Innovation Technology Fund – ITSP – Tier 2) 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 (創新及科技支援計劃)
	1 Nov 2018	Water Permeable Precast Plank by Recycled Materials (Innovation Technology Fund – NAMI) (創新及科技支援計劃)

Awardee (Dept)	Allocation Date	Project Title (Funding Scheme)
Prof. Jinguang Teng (CEE) 滕錦光教授	5 Oct 2018	Sustainable Marine Infrastructure Enabled by the Innovative Use of Seawater Sea-Sand Concrete and Fibre-Reinforced Polymer Composites (RGC Theme-based Research Scheme) 基於海水海砂混凝土與纖維增強複合材料的新型可持續海洋工程結構 (研資局主題研究計劃)
Prof. Jianhua Yin (CEE) 殷建華教授	1 Jul 2016	Development and Verification of a New Simplified Hypothesis B Method for Calculating Consolidation Settlement of Clayey Soils Exhibiting Creep (RGC General Research Fund) 計算蠕變粘性土固結沉降的新假設B簡化計算方法的研發和驗證(研資局優配研究金)
	1 Jul 2017	Test Study of Sea-sand Seawater Concrete FRP Piles in Marine Soils under Cyclic and Static Loading (RGC General Research Fund) 在循環和靜力荷載作用下之海洋土中的海砂海水FRP混凝土樁的試驗研究 (研資局優配研究金)
	1 Jul 2018	Physical Modelling and Analysis of Consolidation Settlements of Multi-layered Clayey Soils Exhibiting Creep without or with Vertical Drains Subjected to a Complicated Loading Process [RGC General Research Fund] 對有/無排水板在複雜荷載作用之下多層蠕變粘性土固結沉降的物理模型試驗研究和分析 (研資局優配研究金)
Dr Songye Zhu (CEE) 朱松曄博士	1 Jul 2014	A Novel Passive Negative-stiffness Damper: Application to Stay Cables (RGC General Research Fund) 新型被動式負剛度阻尼器在斜拉索振動控制中的應用(研資局優配研究金)
	27 Jan 2015	Research & Development of A Novel Type of Electromagnetic Negative-Stiffness Damper (Innovation Technology Fund – ITSP – Tier 3) 關於新型電磁負剛度阻尼器的研發 (創新及科技支援計劃)
	17 Feb 2016	Negative-stiffness Dampers for Vibration Suppression in High-speed Trains (Innovation and Technology Commission – CNERC – sub-project) 基於負剛度阻尼器的高速列車減振研究
	17 Nov 2017	Study on the Mechanism and Application of Energy Transfer in the Nonlinear Self-excited System for 10 MW Level Wind Turbine System (NSFC/RGC Joint Research Scheme) 10MW級風力機體系風致非線性自激系統能量轉移機理及應用基礎研究
	1 Jul 2018	Self-centering Seismic Base Isolators with SMA U-shaped Dampers (RGC General Research Fund) 基於U型形狀記憶合金阻尼器的自復位隔震支座(研資局優配研究金)

FCE Awards for Outstanding PhD Theses 2018/19

建設及環境學院2018/19年度 「傑出博士論文獎」

The following research students have been selected for the FCE Awards for Outstanding PhD Theses:

建設及環境學院設有「傑出博士論文獎」, 2018/19年度的得獎者如下:

Dept 學系	Awardee 得獎者	Chief Supervisor 首席導師	Thesis Title 論文題目
BRE	Waleed UMER	Prof. Heng LI 李恆教授	Biomechanical Evaluation & Mitigation of Occupational Safety Hazards Related to Manual Rebar Tying
BRE	Chuanshuai DONG 董傳帥	Prof. Lin LU 呂琳教授	Enhancing the Dehumidification Performance of Plate Liquid Desiccant Dehumidifier with Super-hydrophilic Coating Considering the Solid-liquid Interaction Effect
CEE	Ka Ming YU 余嘉明	Dr Dan TSANG 曾超華博士	Valorisation of Carbohydrate-Rich Food Waste for Synthesis of Hydroxymethylfurfural (HMF)
CEE	Zhongxu TAN 檀忠旭	Prof. You-Lin XU 徐幼麟教授	Stress-level Buffeting Analysis of Long-span Cable supported Bridges with Twin-Box-Deck under Aerodynamic and Aeroelastic Pressures
LSGI	Peichao GAO 高培超	Prof. Zhilin L I 李志林教授	Boltzmann Entropy for Spatial Information of Images

hotography by Freepik

Results of RGC Competitive Funding Schemes 2019/20

The 2019/20 application results for the RGC General Research Fund (GRF) and Early Career Scheme (ECS) were announced on 28 June 2019. Due to their similar nature, the application results for these 2 schemes have been combined in some of the following analysis:

Research Activities

香港研究資助局2019/20年度 競爭性撥款結果

香港研究資助局2019/20年度「優配研究金」 及「傑出青年學者計劃」的申請結果於六月廿八日 公佈。由於性質相近,我們綜合了兩個資助計劃的 申請結果,一併分析如下:

Dept.	GRF grants	ECS grants	Total (inncluding GRF & ECS)	Overall success rate	Total amount of competitive funding (including GRF & ECS) (HK\$)	Amount per eligible staff member (HK\$)
BRE	4	2	6	30%	\$3,762,006	\$188,100
BSE	9	2	11	58%	\$7,238,514	\$329,023
CEE	10	1	11	35%	\$7,615,938	\$195,280
LSGI	5	3	8	50%	\$5,094,171	\$283,010
FCE	28	8	36	42%	\$23,710,629	\$239,501
(Total)						

The performance of FCE this year has been encouraging. Both BSE and LSGI achieved a success rate of 50% or higher. In terms of the number of grants per year, BSE and CEE led with 11 each, followed by LSGI and BRE respectively. As seen from Figure 1, the number of grants reached a peak of 36 over the past 10 years (since 2010/11), bringing the total funding to nearly \$24 million (an increase of more than 13% as compared with last year). 建設及環境學院今年的表現令人鼓舞:屋宇設備 工程學系(BSE)與土地測量及地理資訊學系(LSGI)申請 撥款的成功率達50%以上:獲資助項目數量方面, BSE與土木及環境工程學系(CEE)同以十一筆撥款並列 榜首,LSGI與建築及房地產學系(BRE)則緊隨其後。 從圖1可見,獲撥款的項目在過去十年(2010/11年度 起)攀升至高峰的三十六個,帶來的總撥款接近二千四 百萬元,較去年增長逾13%。



Figure 1: Comparison of Number of Grants per Year between Departments over past 10 Years



Figure 2: Comparison of Amount of RGC Competitive Funding per Eligible Staff Member between Departments over past 10 Years

In terms of the average funding amount per academic staff member (only counting those who are eligible), the rankings of our 4 departments in descending order are BSE, LSGI, CEE and BRE. As shown in Figure 2, the average funding received by FCE academic staff has shown a gradual increase in recent years (around 22% as compared with last year).

In the Civil Engineering, Surveying, Building and Construction (CESBC) disciplines of the Engineering Panel, PolyU has led local universities in the GRF/ECS exercises since 1994/95 in both the number of GRF/ECS projects supported and the total grant value awarded, consistently winning around or over 40% of all GRF/ECS grants allocated in these disciplines. The distribution of the amount of GRF/ECS funding in 2019/20 among local universities is shown in Figure 3. We received 41% of the total available funding in the CESBC disciplines this year, with an average funding of HK\$607K per project. 教師(只計算合資格人員)人均撥款額方面, 四大學系由高至低的順序排列為屋宇設備工程學系 (BSE)、土地測量及地理資訊學系(LSGI)、土木及環境 工程學系(CEE),以及建築及房地產學系(BRE)。從圖 2可見,本院學者獲得的人均撥款額近年穩步增加 (較去年增長約22%)。

自1994/95年度以來,理大在隸屬於工程學學科 小組的土木工程、測量及建造工程(CESBC)表現持續 突出,以優配研究/傑出青年學者計劃(GRF/ECS) 而言,獲資助的研究項目數量及總資助額均領先其他 本地學府,穩佔該兩項資助計劃對CESBC範疇總撥款 約四成。圖表3顯示了本地大學在2019/20年度獲 GRF/ECS撥款的情況;從中可見,本院所得的資助 金額,高達CESBC範疇可發 放總撥款的四成,而每項 研究獲得的資助平均為六十萬七千港元。



Figure 3: Distribution of GRF/ECS Funding in the CESBC Disciplines among Institutions in the 2019/20 Round

Of the 36 GRF/ECS grants awarded to the Faculty this year, 5 were awarded outside the CESBC disciplines. The Faculty won 31 grants (or 41%) totaling HK\$19,218K out of 76 GRF/ECS grants awarded by RGC in the CESBC disciplines in the present round (i.e. 2019/20).

FCE colleagues are urged to work hard to ensure a greater share of GRF/ECS funding in the future, which also impacts the R-portion of the University as well as its departments.

NSFC Research Grants

3 academics of the Faculty of Construction and Environment (FCE) have been approved for research funding from the National Natural Science Foundation of China (NSFC). Following are the details: 建設及環境學院今年獲發的三十六項GRF/ECS 撥款中,有五項並不屬於CESBC範疇。在2019/20 年度,研資局在CESBC範疇共批出七十六筆GRF/ECS 撥款,我們佔了當中的三十一項(即41%),涉及的總金 額達到一千九百廿一萬八千港元。

希望本院同事繼續努力,以擴大學院在CESBC 範疇所佔的GRE/ECS資助份額;從而令大學及其學系 所得的研究補助金增加。

國家自然科學基金資助本院學者

建設及環境學院三位學者最近獲國家自然科學 基金 (NSFC)批出資助,詳情如下:

Principal Investigator (Dept) 首席研究員(學系)	Scheme 計劃	Project Title 研究項目	Funding Supported by NSFC (RMB) 資助額(人民幣)
Prof. Albert CHAN (BRE) 陳炳泉教授	General Programme 面上項目	Effects of Resilient Safety Culture and Safety Information Cognition on Reducing the Occurrence of Similar Accidents in the Future 基於韌性安全文化與訊息認知的項目組織安全事故學習 範式研究	480,000
Dr Minchen WEI (BSE) 魏敏晨博士	General Programme 面上項目	A Two-step Chromatic Adaptation Transform for Quantifying the Effects of Adapting Chromaticities, Luminance, and Medium 表徵適應場色坐標、亮度與媒體作用的兩步色適應變換 模型的研究	630,000
Dr Yi JIANG (CEE) 蔣毅博士	Young Scientists Fund 青年科學基金項目	Carbon Nanomaterials-Polysulfone Nanocomposite Ultrafiltration Membranes: Revealing Synthesis-Struc- ture-Performance Relationships 表徵適應場色坐標、亮度與媒體作用的兩步色適應變換 模型的研究	260,000

CEE Scholar Supported by Airport Authority HK

Dr Dan Tsang of the Department of Civil and Environmental Engineering (CEE) has been awarded \$1,966,500 from the Hong Kong International Airport Environmental Fund for his project entitled "Valorisation of Food/Paper Waste into Value-Added Chemicals and Energy." The project is expected to last for 2 years, from 2 October 2019 to 1 October 2021.

HK Shorelines Get a Makeover

In a 2-year project funded by the government, researchers at the University of Hong Kong (HKU) and PolyU's Department of Civil and Environmental Engineering (CEE) have been testing eco-friendly concrete blocks and panels for sea walls in the New Territories. With grooves and ridges like rocks that have been eroded by weather and seawater, these eco-panels nurture organisms that are indispensable for a diverse ecosystem to survive. Attached to sea walls at Ma Liu Shui, Sai Kung, and Lung Kwu Tan, these blocks and tiles are made from concrete mixtures of sediment dredged from navigation channels and the ash of burned sludge from a wastewater treatment plant. Not only is waste recycled into eco-concrete, eco-shorelines also promote biodiversity and make reclamation a more sustainable alternative.

The inter-disciplinary project team consisted of 6 members, including Prof. Chi-Sun Poon, Head of Department of Civil and Environmental Engineering.

HK Scholars Programme 2019

5 academics from the Faculty of Construction and Environment have been selected by the Hong Kong Scholars Programme (HKSP) 2019 to each engage a mainland scholar as a Postdoctoral Fellow in their research projects. Launched in December 2010 as a joint initiative between mainland authorities and the Society of Hong Kong Scholars, the HKSP promotes academic/ scientific exchanges and collaboration by matching outstanding mainland PhD graduates with leading academics of universities in Hong Kong, who will supervise the mainland scholars for 2 years in a research project. Following are the details:

土木及環境工程學系學者獲機管局 研究撥款

土木及環境工程學系的曾超華博士最近獲香港 國際機場環保基金撥款一百九十六萬六千五百元, 開展「轉化廚餘/廢紙為增值化學品及能源計劃」。 此項目於2019年十月二日至2021年十月一日推行, 為期兩年。

以環保磚優化香港海岸線

理大土木及環境工程學系研究人員與香港大學 合組的團隊獲政府資助,正在進行一項為期兩年的 項目,在新界的馬料水、西貢及龍鼓灘試用環保混凝 土磚和面板作為海牆。這些環保面板上有凹凸坑紋, 近似長期遭風化和海水侵蝕的石頭表面,有助孕育 多樣化生態系統不能或缺的生物。環保磚以採自航道 的沉積物及焚燒污水處理廠污泥所得的灰燼為原料, 加入混凝土製作而成。建設環保海岸線除了實踐循環 再造的原則,亦有利於生物多樣性,並使填海造地 更為可行。

上述跨領域項目的團隊成員共有六人,包括土木 及環境工程學系系主任潘智生教授。

香江學者計劃2019

建設及環境學院五位學者在2019年「香江學者 計劃」的評選中脱穎而出,將與內地優秀人才合作開 展為期兩年的博士後研究項目。香江學者計劃始於 2010年十二月,由香港學者協會與內地合辦,希望 透過安排內地菁英博士畢業生與香港的傑出大學教授 合作,促進兩地的學術及科研交流。港方學者將於 兩年的研究期內擔任內地學者的導師。本年度的詳情 如下:

Postdoctoral Fellow 博士後研究員	Dept. 學系	Supervisor 導師	Project Title 研究項目
Dr Zhenbao Zhang	BRE	Prof. Meng Ni	Perovskite materials for fuel cells and batteries
張振寶博士		倪萌教授	用於燃料電池和電池的鈣鈦礦材料
Dr Chong Zhang 張沖博士	BSE	Dr Fu Xiao 肖賦博士	Mining Massive Data Sets in Building Automation System for Improving Building Operational Performance 為智能節能建築研發大數據驅動的模擬和優化方法
Dr Dongdong Zhang	CEE	Prof. Jianguo Dai	Innovative Civil Engineering Materials and Structures
張冬冬博士		戴建國教授	土木工程新材料與新結構
Dr Zongwu Chen 陳宗武博士	CEE	Dr Zhen Leng 冷真博士	Development of Innovative Green and Smart Pavement Materials from Recycled Wastes 基於再生廢棄物的新型綠色智慧路面材料
Dr Chaojun Chen	CEE	Prof. You-Lin Xu	Smart Structures
陳朝駿博士		徐幼麟教授	智能結構

RGC Visit to Review a TRS Project

Prof. Prashant Kumar and Prof. Neil Donahue of the Hong Kong Research Grants Council (HKRGC) Monitoring and Assessment Panel visited the Faculty of Construction and Environment (FCE) on 14 October 2019. They conducted a review of a project funded by the RGC Theme-based Research Scheme in 2017/18 and led by Prof. Tao Wang of the Department of Civil and Environmental Engineering (CEE). Entitled "Photochemical Air Pollution in Highly Urbanized Subtropical Regions: from Micro Environments to Urban-terrestrial-oceanic Interactions," the project's objectives, direction, and progress since it started were introduced by Prof. Wang before his co-principal investigators took turns to present their research findings with respect to (i) emissions from trees, soils and oceans, (ii) halogen chemistry and organic aerosol formation as well as (iii), instrument, model development and policy implications. The panel members also visited the Atmospheric Research Laboratory, the Environmental Chamber, and the Project Office. In attendance were 10 postdocs and 15 research postgraduates, who presented some of their posters on the project.

研資局代表到訪檢視獲資助項目進度

香港研究資助局監察及評審委員會的Prashant Kumar教授及Neil Donahue教授,於2019年十月十四 日到訪建設及環境學院,檢視一個由土木及環境工程 學系王韜教授領導、獲該局2017/18年度「主題研究 計劃」資助的項目。該研究題為「亞熱帶高度城市化 地區的光化學空氣污染:從微觀環境到城市-地面-海洋 的互動」,王教授介紹其目標、方向及開始以來的 進展後,就由其他聯席首席研究員輪流報告在三方面 的研究發現,包括(i)樹木、泥土及海洋的排放物:(ii) 國素化學和有機氣溶膠的形成;以及(iii)工具、模型研 發和政策含義。兩位委員也參觀了大氣研究實驗室、 環境研究室及項目辦公室。同場的十位博士後研究員 和十五位研究生,亦趁機介紹部分關於該研究項目的 海報。



Large Equipment Fund for Research and Teaching

The Areas of Excellence Committee of PolyU has recently approved funding for 2 FCE academics to purchase the following large equipment for their research:

科研及教學大型設備基金

理大卓越學術領域委員會最近向兩位建設及環境 學院學者批出撥款,購買進行研究所需的下述大型 設備:

PI (Dept) 首席研究員(學系)	Name of Equipment 設備名稱	Funding Support (HK\$) 資助額(港幣)	
Dr Francis SIU (BRE) 蕭明鋒博士	Rebar-Fixing Robot for Caisson Construction	BRE: FCE: University: Total:	\$410,389.5 \$410,389.5 \$820,779.0 \$1,641,558
Prof. C.S. POON [CEE] 潘智生教授	TI-Premier NanoIndenter	BRE: FCE: University: Total:	\$564,000 \$564,000 \$1,128,000 \$2,256,000

In addition, the Areas of Excellence Committee also approved funding to purchase a large equipment for teaching purposes. Details are as follows: 另外,該委員會亦批准撥款購入一套用於教學的 大型設備,詳情如下:

PI (Dept)	Name of Equipment	Funding Support (HK\$)	
首席研究員(學系)	設備名稱	資助額(港幣)	
Dr Minchen Wei	Full-field Glare Test System	BRE:	\$300,000
(BSE)		FCE:	\$200,000
魏敏晨博士		University:	\$500,000
		Total:	\$1,000,000

FCE Matching Fund for External Competitive Grants

4 academics of the Faculty of Construction and Environment (FCE) have been awarded FCE Matching Funding for external competitive grants. Following are the details: 建設及環境學院校外競爭性撥款配 對基金

四位學者獲建設及環境學院「校外競爭性撥款 配對基金」資助,詳情如下:

PI (Dept) 首席研究員(學系)	Project Title 項目名稱	Total Funding Acquired (HK\$) (Funding Source) 總金額(港元)	Matching Funding Approved (HK\$) 批準金額(港元)
Prof. Meng NI (BRE) 倪萌教授	New Perovskite Anodes for Solid Oxide Fuel Cells Running on Hydrogen/Carbon Monoxide Mixture	\$790,526 (RGC GRF)	BRE: \$80,000 FCE: \$80,000
Dr lvy WONG (BRE) 黄小慧博士	Urban Regeneration in Chinese Cities: An Empirical Study of "Village-in-the-City" Redevelopment in Guangzhou	\$421,614 (RGC GRF)	BRE: \$66,674 FCE: \$66,674
Prof. Jian-Guo DAI (CEE) 戴建國教授	Development of an Energy-saving Coating System for Sustainable Building Envelope	\$1,299,240 (ECF)	CEE: \$59,500 FCE: \$59,500
Dr Daniel TSANG (CEE) 曾超華博士	Holistic Investigation of Fate and Behaviour of Emerging Contaminants in Complex Environmental Matrices	\$1,993,916 (EC/ RGC Collaboration Scheme)	CEE: \$85,000 FCE: \$85,000

FCE Start-up Fund for New Recruits

The following academics have been awarded funding from the FCE Start-up Fund for new recruits:

建設及環境學院新入職人員啟動基金 下述學者獲建設及環境學院「新入職人員啟動

基金」資助開展其研究項目:

PI(Dept) 首席研究員 (學系)	Position 職位	Project Title 項目名稱	Project Duration 項目周期	Funding Approved (HK\$) 批準金額(港元)
Dr Jianfu SHEN (BRE) 沈建富博士	Assistant Professor 助理教授	Do Insiders Exploit the Market Mispricing in Value/Growth Stocks?	36 months	BRE:\$250,000FCE:\$100,000PolyU:\$250,000
Dr Peng WANG (CEE) 王鵬博士	Associate Professor 副教授	Ultrathin Reduced Holey Graphene Oxide (rHGO) Framework Membrane for Highly Selective and Ultrafast Water Nanofiltration	36 months	CEE: \$250,000 FCE: \$100,000 PolyU: \$250,000
Dr Wai Yeung YAN (LSGI) 甄威揚博士	Assistant Professor 助理教授	Multi-Modal LiDAR Point Cloud Processing	36 months	LSGI: \$500,000 FCE: \$100,000 PolyU: \$250,000

Staff News

Former Head of BSE Becomes Emeritus Professor

Ir Prof. Wan-ki Chow, former Head of the Department of Building Services Engineering (BSE) from 2009 to 2016, was conferred the title of Emeritus Professor upon his retirement at the end of October 2019. For over 38 years, he served PolyU and one of its predecessors, moving up the academic ladder to become a Chair Professor of Architectural Science and Fire Engineering in 1998. He was elected a fellow of the Hong Kong Academy of Engineering Sciences in December 2012 and appointed as a Justice of the Peace in July 2013. A recipient of numerous prestigious awards, including a Gold Medal from the Hong Kong Institution of Engineers and a Lifetime Contribution Award from the Asia-Oceania Association for Fire Science and Technology, Prof. Chow was best known for his work in the provision of a safe, comfortable and healthy environment for sustainable buildings with tall heights, large volume in space, and located deep underground. He 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 quidance exceeds 60.

屋宇設備工程學系前系主任獲榮休 教授頭銜



師學會「金章獎」,以及亞洲與大洋洲消防科學科 技協會「終身貢獻獎」,一生致力為佔地廣闊、深入 地底的可持續摩天大樓提供安全、舒適及健康的環境 。在他撰寫的逾千學術文章中,超過三百篇獲SCI國 際期刊刊登,六十餘位研究生在其指導下成功取 得博士學位。

New Academic Staff

The Department of Building and Real Estate (BRE) welcomed a new assistant professor in June 2019. Dr Jianfu Shen completed his PhD degree in Real Estate Finance at The University of Hong Kong. He obtained a bachelor's degree in Land Management and master's degree in Finance from Renmin University of China in Beijing. Prior to joining PolyU, Dr Shen was a visiting scholar at the University of Connecticut, and worked at the School of Accounting & Finance of PolyU, and the Department of Economics & Finance of The Hang Seng University of Hong Kong. He is a certificated financial risk manager and chartered financial analyst. His research interests are real estate, project finance, fundamental analysis, institutional investment, credit rating, and China's capital market.

新教學人員



析師,研究興趣包括房地產、項目融資、基礎分析、 機構投資、信貸評級及中國資本市場。 The Department of Building Services Engineering (BSE) welcomed a new assistant professor, Dr Liming Jiang, at the end of September 2019. Dr Jiang was a research fellow in BSE after receiving his PhD from Edinburgh University in 2016. He then joined a real-estate company, the Country Garden Group, in 2018. He has published a number of journal papers which mainly focused on computational modelling of structures in fire and fire safety of steel/composite structures. His work with OpenSees has transferred it to an open source integrated computational tool for researchers in the field of structural fire safety engineering.

The Department of Civil and Environmental Engineering (CEE) welcomed a new associate professor, Dr Peng Wang, at the end of August 2019. A founding faculty member of the King Abdullah University of Science and Technology (KAUST) in Saudi Arabia, Dr Wang received his PhD from the University of California in Santa Barbara in 2008. His research focuses on conversion and utilization of sustainable energy, especially solar energy and industrial waste heat, towards significant applications at water-energy nexus, including seawater desalination, atmospheric water harvesting, smart cooling, etc. He has published 80 papers, many of which in top journals, including Nature Communications, Joule, EES, ES&T. 7 of his publications are on the ESI list of highly cited papers and many of his projects have been covered by international media like the BBC, The Guardian, Forbes, and Discovery News. He has published three academic books.

The Department of Land Surveying and Geo-Informatics (LSGI) also welcomed its newest assistant professor, Dr Wai Yeung Yan, in July 2019. Prior to joining PolyU, Dr Yan was a sessional lecturer and a postdoctoral fellow at Ryerson University in Canada, where he received his PhD in Civil Engineering in 2012. He is a BSc graduate of LSGI in 2002. His research and teaching interests are remote sensing, LiDAR data processing, radiometric correction, point cloud classification, and object extraction.





屋宇設備工程學系 於2019年九月底再添一 位助理教授。新加入的 江黎明博士在2016年獲 得愛丁堡大學博士學位 後,旋即於屋宇設備 工程學系擔任研究員, 並曾於2018年加入碧桂 **園集團工作。他發表了** 多篇期刊論文,集中 討論火災中的結構運算 模型,以及鋼/複合結構 的消防安全。其有關 OpenSees軟件框架的

工作,已轉化成供結構消防工程研究人員使用的開源 集成運算工具。



王鵬博士。王博士現為 該系副教授,也是沙地 阿拉伯阿卜杜拉國王 科技大學的創校教員。 他2008年於加州大學 聖芭芭拉分校取得博士 學位,重點研究在海水 化淡、大氣集水、工業 廢水處理,智能冷卻 等涉及水與能源的範疇 上 , 如 何 轉 換 和 應 用 可持續能源,尤其是太陽能及工業廢熱。他至今發表

土木及環境工程

學系的最新成員,是於

2019年八月底履新的

了八十篇論文,不少刊於《自然通訊》、《焦耳》、 《能源和環境科學》、《環境科學和技術》等頂級 學報。除了有七篇論文入選「基本科學指標數據庫 常獲引用論文名單」和出版了三本學術專著,他的 不少科研項目亦獲英國廣播公司、《衛報》、《福布 斯》、《探索新聞》等國際媒體報導。



土地測量及地理資 訊學系亦於2019年七月 新添一位助理教授甄威 揚博士。甄博士是土地 測量及地理資訊學系 2002年畢業生,2012年 於加拿大懷雅遜大學取 得土木工程博士學位, 加入理大前為該校講師 及博士後研究員。其研 究及教學重點包括遙感 、 光 學 雷 達 數 據 處 理 、 輻射較正、點雲分類及 對象提取。

LSGI Scholar to Serve on Editorial Boards of Journals

At the 10th China Satellite Navigation Conference in Beijing held from 22 to 25 May 2019, Dr George Liu of the Department of Land Surveying and Geo-Informatics (LSGI) was invited to serve as an editorial board member of a newly launched journal entitled *Satellite Navigation*, China's first international journal in the field of global navigation satellite systems (GNSS). Published by Springer Nature, it is the official journal of the Aerospace Information Research Institute of the Chinese Academy of Sciences.

Dr George Liu of has also been invited to join the editorial board of Geomatics, Natural Hazards and Risk, a journal published by the Taylor & Francis Group in the UK. With an impact factor of 2.332 in 2018, the journal publishes papers that deal with new concepts, approaches and case studies using geospatial (Geographical Information System (GIS) and Global Navigation Satellite Systems (GNSS)) and remote sensing techniques to study monitoring, mapping, risk management and mitigation, risk vulnerability and early warning of natural hazards. All types of natural hazards with land. ocean. associated atmosphere. land-ocean-atmosphere coupling and those induced by climate change are considered. The journal also focuses on the emerging problems related to multi-hazard risk assessment, multi-vulnerability risk assessment, risk quantification, the economic aspects of hazards, visualization and communication.

Ex-RAP's New Appointment at HKUST

A former Research Assistant Professor (RAP) of the Department of Civil and Environmental Engineering (CEE), Dr Zhe Wang, was appointed Assistant Professor of Atmospheric Chemistry in the Division of Environment and Sustainability of the Hong Kong University of Science and Technology (HKUST). He began his new job there in September 2019. Prior to that, he was a RAP at PolyU for 5 years, receiving a Dean's Award for Outstanding Achievement in Research Funding in 2017

土地測量及地理資訊學系學者獲邀 出任學術期刊編務委員



在2019年五月二十二至二十五 日於北京舉行的第十屆中國衛星 導航年會上,土地測量及地理資訊 學系的劉志趙博士獲邀擔任《衛星 導航》學報的編務委員。該刊由 Springer Nature 出版,為中國科 學院空天信息研究所的官方刊物, 也是中國首份針對全球導航衛星系 統的國際學報。

劉志趙博士最近亦應英國Taylor & Francis 出版集團之邀,擔任其旗下學報《地理信息、 自然災害與風險》的編務委員。該刊在2018年的 影響系數達2.332,當中發表的論文,主要是 針對如何將新的地理空間(地理信息系統及全球導 航衛星系統)及遙感技術概念及策略,用於研究自 然災害的監察、製圖、風險管理及減災、風險脆 弱性與預報系統,以及相關案例。所有陸地、 海洋、大氣、陸-海-氣耦合,以至由氣候轉 誘發的自然災害,都屬學報的討論範圍。另外, 該刊亦重點報導一些與多重災害風險評估、多重 災害脆弱度風險評估、風險量化、災害經濟學、 可視化及通訊有關的新興問題。

前助理教授(研究)加盟 香港科技大學



Student News 學生消息

Belt and Road Scholarship 2019/20

A first-year research postgraduate student from Pakistan, Mr Muhammad Tauseef Nasir, has been awarded the Belt and Road Scholarship from the Education Bureau of the Hong Kong Government to continue his studies in the Department of Building Services Engineering. Mr Nasir has a BSc in mechanical engineering from the Ghulam Ishaq Khan Institute of Engineering Sciences and Technology in Pakistan and an MSc in the same field from Pusan National University in South Korea.

2019/20一帶一路獎學金

來自巴基斯坦的一年級研究生Muhammad Tauseef Nasir先生,最近獲香港政府教育局頒發「一帶一路獎學金」於屋宇設備工程學系繼續學業。Nasir 先生是巴基斯坦古蘭姆伊沙克汗工程科學技術學院機 械工程學學士,並擁有南韓釜山大學理學碩士學位。

CIOB (HK) Outstanding Student Award 2018/19

A graduate of the BSc programme in surveying, Miss Westing Tsoi, was honoured on 17 September 2019 with an Outstanding Student Dissertation Award 2018/19 from the Chartered Institute of Building (HK). She received a prize cheque of \$1000 and an award certificate for her empirical study of open space planning and its quality for public housing development in Hong Kong. Her supervisor was Dr Daniel Chan of the Department of Building and Real Estate (BRE).

The primary goals of these awards are to promote excellence in construction project management and to recognize students with outstanding academic achievements. After graduating at the top of her class, Miss Tsoi is now a technical trainee at Swire Properties Ltd.

英國皇家特許建造學會(香港分會) 2018/19卓越學生獎

地產及建設測量學理學士畢業生蔡婷小姐, 於2019年九月十七日獲英國皇家特許建造學會(香港 分會)頒發2018/19年度「卓越學生論文獎」,獲獎狀 及一千元現金獎。其論文探討開放空間規劃與香港公 共房屋質素的關係,屬於實證研究,論文導師為建築 及房地產學系的陳煒明博士。

此獎旨在提升建築項目的管理水平及嘉許學業 成績出眾的學生。蔡小姐以優異成績畢業,現為太古 地產有限公司技術見習生。



Miss Westing Tsoi at the award ceremony

PolyU Entry Scholarship Award Ceremony

An award ceremony for non-local students who received entry scholarships to PolyU was held on 22 August 2019 at the Chiang Chen Studio Theatre. Over 60 scholarship students and some of their parents attended the ceremony. PolyU President, Prof. Jin-Guang Teng, gave a welcome address, and presented certificates to scholarship students with Executive Vice President Dr Miranda Lou and Vice President (Student Affairs) Prof. Ben Young. In attendance were Associate Vice President (Academic Support) Prof. S.L. Ho and the Deans of the various Faculties and Schools, including Prof. You-Lin Xu, Dean of the Faculty of Construction and Environment (FCE). 8 of the scholarship students are enrolled at FCE. 5 of them are from Kazakhstan, with the others from Malaysia, Sri Lanka, and Taiwan respectively.

理大新生獎學金頒授儀式

2019年八月二十二日,理大於蔣震劇院為非本地 生舉辦新生獎學金頒授儀式,逾六十位獎學金得主及 部分家長出席。理大校長滕錦光教授親臨發表歡迎 辭外,更聯同行政副校長盧麗華博士及副校長(學生 事務)楊立偉教授向得獎同學頒發獎狀。當日出席的其 他理大高層還有協理副校長(學術支援)何兆鎏教授,以 及包括本院院長徐幼麟教授在內的各學院院長。在一 眾獎學金得主中,有八位入讀建設及環境學院,當中 五人來自哈薩克,其餘三人分別來自馬來西亞、斯里 蘭卡及台灣。



Some PolyU senior management (front) with the scholarship students of FCE

Entry Scholarships for Outstanding MSc Applicants

The Postgraduate Scheme in Construction and Environment provides scholarships to outstanding applicants admitted to the taught MSc programmes. For 2019/20, 15 scholarships covering the tuition fees were given to the following applicants:

理大新生獎學金頒授儀式

建設及環境碩士組合課程特設新生獎學金予優異 的學生以吸引菁英學生入讀本院的授課式碩士課程。 在2019/20年度,共有十五名申請人獲頒獎學金,以支 付一整學年的學費,詳情如下:

Dept 學系	MSc Programme 理學碩士課程	Name 獎學金得主
BRE	Construction and Real Estate 建築及房地產學	Sherif Mohamed Abdelmageed Mohamed
BRE	Construction and Real Estate 建築及房地產學	Joosang Yoo
BRE	Construction Law and Dispute Resolution 建築法及爭議解決學	Ka Ming Tang 鄧家明
BRE	Construction Law and Dispute Resolution 建築法及爭議解決學	Wai Ming Wong 黃惠明
BRE	Project Management 項目管理學	Angulugaha Kanaththage Tharindu Darshana Abhayajeewa
BRE	Project Management 項目管理學	Jia Xi Kelvin Chen 陳嘉熙

BSE	Building Services Engineering 屋宇設備工程學	Kam Chuen Kwan 關錦銓
BSE	Building Services Engineering 屋宇設備工程學	Wing Yan Tong 湯潁恩
BSE	Facility Management 設施管理學	Chi Leuk Piu Chan 陳子略
BSE	Facility Management 設施管理學	Chi Keung Yuen 袁志強
BSE	High Performance Buildings 高效能建築學	Pik Han Christina Tang 鄧碧嫻
CEE	Civil Engineering 土木工程學	Lai Kan Wong 黃勵勤
CEE	Environmental Management and Engineering 環境管理及工程學	Ho Wang Chan 陳浩弘
LSGI	Geomatics (Geographic Information Systems) 測繪及地理資訊學 (地理資訊)	King Fung Chau 周敬峰
FCE	Sustainable Urban Development 可持續城市發展學	Jian Cheng 成健

Meeting with 26th FCE Students' Association

On 17 June 2019, 14 representatives of the 26th Faculty of Construction and Environment Students' Association (FCESA) met with Prof. Geoffrey Shen, Associate Dean (Teaching), to present their budget plans and activities for the coming months. A dozen events have been planned, with FCESA requesting sponsorship for its orientation camp, production of its own brand of stationery, and its annual dinner. The various activities of FCESA aim to promote a sense of belonging among its members, who can broaden their networks by participating in its organized events. A microcosm of social life at PolyU, the organization is exclusively run by FCE students for the well-being of their fellow students.

院方與建設及環境學院第二十六屆 學生會代表見面

建設及環境學院第二十六屆學生會十四名代表與 副院長(教務)沈岐平教授於2019年六月十七日見面, 介紹來年的預算及暫定活動,例如需要申請贊助的 迎新營、製作以學生會為品牌的文具,以及舉辦周年 晚會。這些活動旨在增強會員的歸屬感,而同學在 參加活動的過程中,亦可擴闊社交圈子,拓展人脈。 該會完全由建設及環境學院學生管理,以促進同學的 福祉為目標,猶如理大社交生活的縮影。



Representatives of FCESA with Prof. Geoffrey Shen (Front center)

Study Tours of BRE Students

More than 150 students from the Department of Building and Real Estate (BRE) took the opportunity to participate in a 4 to 5-day study tour in 2018/19. 2 groups visited Tokyo in early January, 2 more groups visited Osaka in January and May respectively, while 1 group visited Taiwan in late May.

Accompanied by Dr Hongqin Fan and Dr Hsi-Hsien Wei, 25 building engineering and management students visited the Tokyo office of ARUP, Omotesando, Tokyo Institute of Technology, the Archi-Depot Museum, and CBRE, the leading global provider of comprehensive commercial real estate services in Japan. Another group of 31 students visited the Tokyo Institute of Technology with Prof. Eddie Hui and Ms Hebe How, in addition to Roppongi Hills, Nishimatsu Construction Co. Ltd., Japan Real Estate Institute, and a selected place of interest.

Among the places in Osaka visited by a group of students were the Disaster Reduction and Human Renovation Institution, the Akashi Kaikyo Bridge Exhibition Centre, the Graduate School of Engineering of Osaka University, and the Japan Real Estate Institute. In particular, students studying property management went to the Hankyu Hanshin Department Store, the Umeda Sky Building, the Nankai Electric Railway, and Kansai University. All these landmarks provided excellent examples of the concepts and principles that students have learnt in their classes.

The 39 BRE students visiting Taiwan not only experienced its unique culture, but also learnt about its construction and real estate industry. The places they visited included Taipei 101, National Chiao Tung University, the National Centre for Traditional Arts, Fubon Life Tungnan Building, the National Taiwan University of Science and Technology, Beitou Park and Taipei Public Library. The study tours were unforgettable learning experiences for all the students.

建築及房地產學系學生遊學行

在2018/19年度,建築及房地產學系超過一百五 十位同學參加了為期四至五天的遊學之旅,當中兩組 人在一月初前往東京,兩組人分別於一月及五月到 大阪,亦有一組在五月底東赴台灣。

在樊宏欽博士及魏希賢博士陪同下,二十五位 修讀建築工程及管理學的同學參觀了奧雅納集團的 東京辦事處、表參道、東京工業大學、建築 倉庫博物館,以及在日本提供全面工商樓宇服務的 國際集團世邦魏理仕。由許智文教授和侯瑋芳女士率 領的三十一位同學,則參觀了東京工業大學、六本木 新城、西松建設、日本不動產研究所和一些有趣的 景點。

前往大阪的同學行程同樣豐富,包括造訪人與 防災未來中心、明石海峽大橋展覽中心、大阪大學院 基礎工學研究科,以及日本不動產研究所。攻讀物業 管理的同學特別參觀了阪急阪神百貨、梅田藍天大廈 、南海電鐵及關西大學。這些都是大阪的地標建築, 充分體現了他們平日所學習的物業管理概念和原則。

至於三十九位前往台灣的同學,不但得以體驗 寶島的獨特文化,更加深了對當地建造及房地產業的 認識。他們的行程包括台北101大樓、國立交通 大學、國立傳統藝術中心、富邦人壽敦南大樓、國立 台灣科技大學、北投公園及台北市立圖書館。對所有 同學來說,遊學之旅的所見所聞,都是難忘的學習 經驗。



BRE students in Tokyo

BSE Study Tour of Nagoya, Japan

38 students from the Department of Building Services Engineering went on a week-long study tour of Nagoya, Japan, in mid-May 2019. The students first participated in an academic exchange and sharing session with Japanese students at Gifu University. some Subsequently, they visited the Nagoya Urban Institute, Toyota Ecoful Town, Kobunaki Eco Village, and the Nanyo Waste Disposal Plant on different days. Not only did they learn about the urban planning and development of Nagoya, they also experienced first-hand what an eco-living environment was like. Other sightseeing spots on their itinerary included the Atsuta Jingu Shrine, Nagoya Castle, and the Toyota Automobile Museum. Students returned from their tour with a heightened awareness of sustainable built development.

In addition to financial support from the Teaching and Student Development Fund of the Faculty of Construction and Environment donated by Ir Mr K.F. Yau, the tour was sponsored by the International Affairs Office, the Alumni Association of Building Services Engineering, the ATAL Engineering Group, Crest Consultants (Far East) Ltd., CxAsia Ltd., Krueger Engineering (Asia) Ltd., Telemax Environmental and Energy Management Ltd., as well as alumni Ir Dr Anthony C.W. Lo and Ir K.F. Yee.

屋宇設備工程學系學生名古屋遊學 之旅

屋宇設備工程學系三十八位同學,在2019年五月 中踏上為期一周的日本名古屋遊學之旅。他們首項 活動是拜訪岐阜大學,與該校學生進行學術交流和 分享體驗。其他行程則包括參觀名古屋都市中心、 豐田綠色小鎮、小舟木環保村及鳴海廢物處理所。 眾人不僅對名古屋市的都市規劃和發展加深了解, 也親身體驗了何謂綠色生活環境。觀光方面,他們 參觀了熱田神宮、名古屋城和豐田汽車博物館。 此行,成功增強了同學對可持續建築環境的重視。

此遊學團獲得由游國輝工程師捐款成立的建設及 環境學院「教學及學生發展基金」資助,其他贊助人 及單位包括理大國際事務處、屋宇設備工程學系校 友會、安樂工程集團、創峰工程顧問(遠東)有限公司、 CxAsia Ltd、高雅機電(亞洲)有限公司、特立美環保 及能源管理有限公司,以及校友Anthony C.W. Lo博士 工程師及 K.F. Yee工程師。



Visit to Atsuta Jingu Shrine

LSGI Study Tour to Rome and Pisa, Italy

From 28 May to 6 June 2019, 20 students from the Department of Land Surveying and Geo-Informatics (LSGI) visited Italy on a study tour supported by the Study Abroad Fund of the International Affairs Office and LSGI. Led by Ir Dr Wallace Lai, students visited the Departments of Physics and Maths as well as Civil Engineering of the Roma Tre University in Rome, where they learnt a wide range of applications of geophysical techniques for understanding the subsurface, such as archaeology and planetary exploration. Two final-year students also presented their BSc theses on the engineering geophysical applications in Hong Kong. Another city that was on the itinerary was Pisa, where students learnt about operating equipment for ground penetrating radar, processing software, and conducting a field survey at a test site which contains different geological conditions and different buried objects. Final discussion and presentation of the survey result and underground 3D models were made in groups by both third and fourth-year students. Not only did students learn how technologies are perceived and applied in another part of the world, but also how to present what they have learnt and achieved in LSGI.

土地測量及地理資訊學系同學意大 利遊學之旅



LSGI students in Pisa, Italy

HKSAR Government Honours FCE Alumni

For their significant contributions to Hong Kong and the community, 4 alumni of the Faculty of Construction and Environment (FCE) made it onto the 2019 Honours List of the HKSAR Government. Receiving the Silver Bauhinia Star was Dr Tin-cheung Cheung, an alumnus of the Department of Building and Real Estate (BRE), while a Bronze Bauhinia Star was awarded to Ir Robin Kui-biu Lee, an alumnus of the Department of Civil and Environmental Engineering (CEE). In addition, fellow BRE alumnus Mr Simon Miu-man Siu received a Medal of Honour, and fellow CEE alumnus Mr Barry Lap-hei Kwok received a Chief Executive's Commendation for Government/ Public Service.

特區政府表揚本院校友

校友消息

在特區政府2019年授勳名單中,建設及環境學院 四位校友因對香港社會有傑出貢獻而獲得嘉許,包括 獲銀紫荊星章的建築及房地產學系校友張天祥博士, 以及獲銅紫荊星章的土木及環境工程學系校友李鉅標 工程師。此外,另一位建築及房地產學系校友蕭妙文 先生亦獲授榮譽勳章,土木及環境工程學系校友郭立 熙先生則獲頒行政長官公共服務獎狀。

FCE Alumni Ambassadors

At an annual dinner on 6 September 2019, 3 graduates of the Faculty of Construction and Environment (FCE) joined the ranks of PolyU's alumni ambassadors to represent their alma mater in various functions and activities. 2 of them just graduated this year: Fanny Fung (BSc in Environment & Sustainable Development) and Lai Ting Lam (BSc in Property Management), while the third one, Paul Tsui, graduated earlier with a Higher Diploma in Land Surveying. Pleased to have the opportunity to support their alma mater, they joined the following alumni ambassadors from FCE who have contributed actively to university initiatives and alumni events:

- Hau Yin Chau (BSc (Hons) in Geomatics (Utility Management & Surveying)
- Vivian Cheng (BSc (Hons) in Property Management)
- Ir Johnny Fan (Higher Diploma in Structural Engineering)
- Alex Fung (BEng (Hons) in Building Services Engineering)
- George Fung (BEng (Hons) in Civil Engineering)
- Robert Lam (BSc (Hons) in Surveying)
- Karen Mak (BSc (Hons) in Property Management)
- Lok Hei Wong (BSc (Hons) in Surveying)

建 設 及 環 境 學 院 畢 業 生 獲 委 任 為 理大校友大使

在2019年九月六日的理大校友大使周年晚宴上, 建設及環境學院三位畢業生獲委任為理大校友大使, 代表母校參與各項推廣活動。三人中,馮子蔚(環境 工程與可持續發展學理學學士)和林麗婷(物業管理學理 學學士)剛於今年畢業,Paul Tsui則為測量高級文憑校 友。他們對此極感興奮,並會聯同下述已晉身校友大 使的建設及環境學院畢業生,積極參與有關活動, 為母校作出貢獻。

- 周孝賢(測繪及地理資訊學理學士(管線設施測繪與 管理)畢業)
- 鄭惠文 (物業管理學理學士畢業)
- 樊紹基
- 馮兆豐 (屋宇設備工程學工學士畢業)
- 馮卓賢 (土木工程學工學士畢業)
- 林杏儒 (地產及建設測量學理學士畢業)
- 麥嘉欣 (物業管理學理學士畢業)
- 汪駱禧 (地產及建設測量學理學士畢業)



Newly appointed alumni ambassadors of PolyU

Events

2nd International Conference on Urban Informatics

From 24 to 26 June 2019, the 2nd International Conference on Urban Informatics (ICUI) was held at PolyU. Sponsored by the Croucher Foundation Ltd., the Faculty of Construction and Environment (FCE), and the Department of Land Surveying and Geo-Informatics (LSGI), the conference had future smart cities as its theme. At the opening ceremony, welcome remarks were delivered by Prof. You-Lin Xu, Dean of FCE, which were followed by an opening address from Mr Ray Leung, JP, Deputy Director of the Lands Department of the Hong Kong Government. Prof. John Shi, Head of LSGI and Chair of the Organizing Committee, introduced the conference, which included 9 keynote speeches and almost 20 sessions on topics ranging from urban remote sensing to spatial data infrastructure to smart mobility. About 280 researchers and scholars from 18 countries, including some from MIT, Cambridge, Harvard, UCL etc. were in attendance. Debuting at the conference were an International Society of Urban Informatics and an International Journal on Urban Informatics. Together with the biennial conference series, they are expected to provide a cohesive framework to promote urban informatics.

第二屆城市信息學國際會議

活動剪影

第二屆城市信息學國際會議已於2019年六月二十四 至二十六日在理大順利舉行。這屆會議以「未來智慧 城市」為主題,獲裘槎基金會、建設及環境學院,以及 土地測量及地理資訊學系聯合贊助。本院院長徐幼麟 教授及地政總署副署長梁建華太平紳士分別發表歡迎辭 及開幕辭後,土地測量及地理資訊學系系主任暨籌委會 主席史文中教授隨即介紹會議內容,當中的九項主題 演講及接近二十個討論環節,涵蓋城市遙感技術、空間 數據基建、智慧出行等多項議題。出席的二百八十位 科研人員與學者遍及十八個國家,部分更來自麻省理工、 劍橋、哈佛、倫敦大學學院等知名學府。會上,國際 城市信息學會正式成立,並宣佈出版《國際城市信息 學報》,再加上每兩年一度的城市信息學國際會議, 預計將為這門科學提供有力推廣平台。



Some keynote speakers and the officiating guests



At the conference

3rd International Conference on Bioresources, Energy, Environment, and Materials 2019

From 12 to 15 June 2019, the 3rd International Conference on Bioresources, Energy, Environment, and Materials Technology was held at PolyU. Stimulating new research activities in technological and managerial advancement, the conference attracted about 250 academic researchers, industrial practitioners, green groups, and government officials from all over the world to share scientific and technical inputs as well as political feedback on a range of related issues. Altogether, there were 12 plenary speeches, about 30 keynote speeches, and over 200 poster/ oral presentations. 3 special issues of top journals will publish the conference proceedings afterwards.

The Conference Chair, Dr Daniel Tsang of the Department of Civil and Environmental Engineering (CEE), is grateful for the support provided by the Environment and Conservation Fund, the K.C. Wong Education Foundation, as well as the Hong Kong and China Gas Company Limited, the gold sponsor of the conference.

第三屆國際生物資源、能源、環境 及物料會議

第三屆國際生物資源、能源、環境及物料科技會議, 已於2019年六月十二至十五日在理大順利舉行,出席 的世界各地學術研究人員、業界人士、環保組織代表及 政府官員多達二百五十位。大會鼓勵有助提升技術及 管理水平的創新科研活動,並提供平台讓與會者分享 科學技術新知,以及一些相關事宜的政治觀點。會議 包含十二個全體演講,約三十個主題發言,以及逾二百項 海報/口頭報告。三份頂級學報的特刊,稍後將刊出 今次會議的文集。

這次會議由土木及環境工程學系的曾超華博士擔任 主席。曾博士非常感謝環境及自然保育基金、王寬誠 教育基金,以及香港中華煤氣有限公司(黃金級贊助 機構)的鼎力支持。



At the conference



Some of the participants

11th Asia-Pacific International Conference on Lightning

The 11th Asia-Pacific International Conference on Lightning was held at PolyU on 12 June 2019. As a platform for scientists, engineers and academics to share their research and explore the latest technology for lightning monitoring, detection and protection, the conference drew 210 participants from 27 countries. The conference chair, Prof. Ya-ping Du of the Department of Building Services Engineering (BSE), began the opening ceremony with a speech, which was followed by a welcome address from Ir Prof. Alex Wai, PolyU's Vice President (Research Development). In attendance was Prof. Xiaoli Ding, Associate Dean (Partnership) of the Faculty of Construction and Environment. More than 170 papers were presented at the conference, which was well received by all concerned.

第十一屆亞太國際防雷研討會

在2019年六月十二日於理大舉行的第十一屆亞太 國際防雷研討會,吸引了二百一十位來自二十七個國家 的科研人員、工程師及學者參與,分享及探討有關監察 及預防雷擊的研究成果和最新技術。研討會由屋宇設備工 程學系的杜亞平教授擔任主席及發表開幕辭,理大副校 長(科研發展)衛炳光教授工程師緊接發表歡迎辭。 本院副院長(協作)丁曉利教授亦為座上客。席上發表的 論文超過一百七十份,現場氣氛熱烈。



Some participants of the conference

13th International Conference of the Eastern Asia Society for Transportation Studies

From 9 to 12 September 2019, the 13th International Conference of the Eastern Asia Society for Transportation Studies was held in Sri Lanka with a theme of redesigning transport and logistics for the rise of Asia. More than 500 researchers and academics were in attendance. Prof. William Lam of the Department of Civil and Environmental Engineering (CEE) gave a keynote address on pedestrian planning in Hong Kong. He also received the Yasoshima Yoshinosuke Prize for a paper coauthored with his colleague Prof. Agachai Sumalee, CEE PhD students Mr Khoa Dang Vo and Ms Kun Qian. The paper was entitled "Modeling Joint Activity-Travel Patterns in Pedestrian Networks with Possibility of Using Wi-Fi Data." The prize recognizes academic and/or practical contributions for realizing better mobility in East Asia and the world. It is given to the best paper presented at the conference.

第十三屆東亞運輸研究學會國際 研討會

第十三屆東亞運輸研究學會國際研討會於2019年 9月9日至12日假斯里蘭卡可倫坡舉行,會議主題為 「為亞洲的崛起重新設計運輸及物流系統」,與會的研究 人員和學者超過五百位。會上,土木及環境工程學系 林興強教授就香港的行人規劃發表了主題演講,並獲得 大會頒發的「矢島義之助獎」。此獎項是頒發給在研討 會上發表的最佳論文,獲獎論文需對實現東亞以至全 球交通運輸的學術研究及實踐具有傑出貢獻。得獎論文 題為「利用Wi-Fi數據模擬行人交通網絡中的共同活動 和出行模式」,由林興強教授、Agachai Sumalee教授 ,以及土木及環境工程學系的兩位博士生(Khoa Dang Vo先生和錢坤女士)合著。



Prof. William Lam (Right) receiving his prize

Eurasian OpenSEES Days

The first Eurasian Conference on the Open System for Earthquake Engineering Simulation (OpenSEES) was held at PolyU on 20 and 21 June 2019. As a platform for scholars and engineers from all over the world to share the latest computational tools for complex engineering analysis and design, the conference consisted of over 40 presentations, including 3 keynote speeches from leading academics, Prof. Filip Filippou of the University of California at Berkeley, Prof. Xinzheng Lu of Tsinghua University, and Prof. Giorgio Monti of La Sapienza University of Rome. Prof. You-Lin Xu, Dean of the Faculty of Construction and Environment (FCE), gave a welcome address at the opening ceremony. The organizing committee was led by Prof. Asif Usmani of the Department of Building Services Engineering (BSE). Attracting over 130 participants, the conference provided an overview of the latest developments made on the OpenSEES framework as well as presented some research and practical outcomes in which OpenSEES plays an important role.

地震工程模擬計算平台歐亞研討會

首個有關地震工程模擬計算平台(OpenSEES)的 歐亞研討會,已於2019年六月二十至二十一日在理大 舉行。在兩天的會期裡,全球學者及工程師雲集,分享 用於複雜工程學分析及設計的最新計算工具,除了逾 四十項口頭報告,更有三位頂級學者一加州大學柏克萊 分校的Filip Filippou教授、清華大學陸新征教授,以及 羅馬大學的Giorgio Monti教授一發表主題演講。研討會 由本院院長徐幼麟教授致歡迎辭,籌委會主席為屋宇 設備工程學系系主任Asif Usmani教授。一百三十多位 與會者除藉此了解OpenSEES框架的最新發展,亦可報告 一些建基於OpenSEES的科研和實踐成果。



Some of the participants at the conference

CIB World Building Congress 2019

From 17 to 21 June 2019, the CIB World Building Congress was held at PolyU, with a theme of constructing smart cities. Co-organized by the International Council for Research and Innovation in Building and Construction (CIB) and the Department of Building and Real Estate (BRE), the event attracted more than 400 scholars, researchers and industrv practitioners from about 30 countries to share the latest on a range of related topics. Ir Prof. Alex Wai, Vice President (Research Development), gave a welcome speech at the opening ceremony, which was followed by 8 well-attended keynote sessions. In addition, 4 different tours to places of interest were arranged for participants on the last day. Funded by the Construction Innovation and Technology Fund, the event was also supported by the Faculty of Construction and Environment (FCE), the Construction Industry Council, the Urban Renewal Authority, the Hong Kong Institute of Construction Managers, the Hong Kong Institution of Engineers, the Hong Kong Institute of Project Management, the Hong Kong Institute of Surveyors, and the Royal Institution of Chartered Surveyors. Selected papers from the event will be published in special issues of academic journals like Advanced Engineering Informatics, Engineering, Construction and Architectural Management, Facilities, Intelligent Buildings International, Journal of Built Environment Project and Asset Management and the Journal of Information Technology in Construction.

2019 CIB世界建築大會

以「建造智慧城市」為主題的2019年CIB世界建築 大會,已於六月十七至二十一日於理大舉行。這會議由 國際建築建設研究與創新理事會夥拍建築及房地產學系 合辦,吸引來自三十個國家的四百多位學者、研究員及業 界人士出席,分享多項相關議題的最新資訊。活動由理 大副校長(科研發展)衛炳江教授工程師發表歡迎辭正式揭 開序幕,之後共分為八個主題演講環節,最後一天更安 排了四個不同的參觀行程。會議由建造業創科基金資 排了四個不同的參觀行程。會議由建造業創科基金資 號了四個不同的參觀行程。會議由建造業創科基金資 非了四個不同的參觀行程。會議由建造業創科基金資 非了四個不同的參觀行程。會議由建造業創科基金資 非了四個不同的參觀行程。會議由建造業創 名基金資 。 《先進工程信息學》、《工程、建造及建築管理》 、《設施學》、《國際智慧建築》、《建造環境項目及資 產管理》、《建築信息技術》等學術期刊將有特刊,刊 出會議中部分精選論文。



At the opening ceremony

IStructE Delegates Visit FCE

On 6 November 2019, 2 delegates from the Institution of Structural Engineers (IStructE), UK, and 3 from its Hong Kong branch visited the Faculty of Construction and Environment (FCE) and were warmly welcomed by FCE representatives. IStructE (UK) President Dr Joe Kindregan and the Chairman of its Hong Kong Regional Group Ir Prof. James C.W. Lau each delivered a speech. Prof. You-Lin Xu, Dean of FCE, then introduced the Faculty, which was followed by presentations from other colleagues of BRE, CEE, and LSGI: Prof. Albert Chan, Prof. Heng Li, Prof. Yiqing Ni, Prof. Jianguo Dai, Dr Tak Ming Chan, Dr Siu Kai Lai, Dr You Dong, Prof. Xiaoli Ding and Prof. John Shi.

The delegates subsequently visited the Smart Construction Lab with Prof. Heng Li of the Department of Building and Real Estate (BRE), the Smart Cities Lab with Prof. John Shi, Head of the Department of Land Surveying and Geo-Informatics (LSGI), the Hong Kong branch of the Chinese National Rail Transit Electrification and Automation Engineering Technology Research Centre with its Director, Prof. Yiqing Ni of the Department of Civil and Environmental Engineering (CEE), the Hong Kong branch of the Chinese National Engineering Research Centre for Steel Construction with its Director, Prof. Kwok Fai Chung of CEE, and the Structural Engineering Research Lab with Dr Tak Ming Chan of CEE. The visit gave the delegates a better idea of the ongoing research at FCE and the developments at some major labs.

英國結構工程師學會代表到訪

2019年十一月六日,英國結構工程師學會 (IStructE)兩位代表到訪本院,同行者還有其香港分會 的三位代表。IStructE會長Joe Kindregan博士及其香港 分會主席劉志宏教授分別致辭後,院長徐幼麟教授隨即 介紹與會的本院學者,並由建築及房地產學系、土木及 環境工程學系,以及土地測量及地理資訊學系的同事逐 一作口頭報告,包括陳炳泉教授、李恆教授、倪一清教 授、戴建國教授、陳德明博士、黎紹佳博士、董優博 士、丁曉利教授及史文中教授。

來賓其後參觀了智能建造實驗室、智慧城市與空間 大數據分析實驗室、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(CNERTE)、國家鋼結構工程 技術研究中心香港分中心,以及結構工程實驗室,陪同者 分別為建築及房地產系李恆教授、土地測量及地理資 訊學系主任史文中教授、土木及環境工程學系倪一清 教授(CNERTE主任)、鍾國輝教授及陳德明博士。此行 讓各學會代表對本院目前的研究工作和一些主要實驗室 的發展有更清晰了解。



The visitors with some FCE representatives
Opening of Joint GNSS Research Laboratory

An opening ceremony for the Unistrong/PolyU Joint GNSS Research Laboratory was held on 14 October 2019. Following an introduction of the guests by Prof. Wu Chen of the Department of Land Surveying and Geo-Informatics (LSGI), speeches were delivered by Prof. Guohua Chen, PolyU's Associate Vice President (Research Support), Dr Brian Lin, Chief Executive Officer of Unistrong, Prof. You-lin Xu, Dean of the Faculty of Construction and Environment (FCE), Mr Keith Marshall, Executive International Director of Unistrong, Mr Congli Wu, Vice President of Unistrong, and Prof. John Shi, Head of LSGI. A leading GNSS equipment supply and system solution provider in China, Unistrong has a longstanding record of collaboration with FCE and recently donated some of their latest equipment for its research and teaching purposes. After the ceremony, participants visited LSGI's Navigation Lab to view some of the research on display there and discuss possible research areas. Both sides will further develop project proposals, including future joint projects in GNSS and smart city, GNSS equipment test facilities, and scholarships for PhD students.

全球導航衛星系統聯合研究實驗室 揭幕

合眾思壯/理大全球導航衛星系統(GNSS)聯合研究 實驗室於2019年十月十四日舉行揭幕儀式。土地測量 及地理資訊學系的陳武教授介紹各主禮嘉賓後,理大 協理副校長(科研支援)陳國華教授、合眾思壯首席 執行官Brian Lin博士、建設及環境學院院長徐幼麟教授、 合眾思壯國際執行董事 Keith Marshall先生及副董事長 Congli Wu先生、土地測量及地理資訊學系系主任史文中 教授逐一發表講話。合眾思壯是中國首屈一指的 GNSS 器材及系統方案供應商,與建設及環境學院合作多年, 最近曾捐贈部分最先進的器材予本院作科研及教學用途。 儀式結束後,一眾嘉賓獲安排參觀土地測量及地理資訊 學系的導航實驗室,檢視當中展出的一些研究項目, 並討論有研究潛質的範疇。雙方將繼續草擬涵蓋GNSS 聯合研究項目、智慧城市、GNSS器材測試設施等主題 的研究建議書,並探討設立博士生獎學金。

Signing Ceremony for Joint Low-voltage Innovation Laboratory

A signing ceremony for a Joint Low-voltage Innovation Laboratory between the Futian Power Supply Bureau (FPSB) and PolyU was held on 22 August 2019 in Shenzhen. Addressing local concerns for electricity safety and disaster prevention in electricity distribution and utilization, the laboratory will focus research on the key technologies of safety and reliability in the low-voltage power grid. Representing FPSB was its Director, Mr Linfu Jiang, who introduced the laboratory and its future plans at the signing ceremony. As a base for scientific research, product development, and development of industry standards, the laboratory will serve as a model of collaboration between Hong Kong and Shenzhen in production, education, and research.

Representing PolyU was Prof. Yaping Du of the Department of Building Services Engineering (BSE), who shared the experience and practice of low-voltage electrical installations in Hong Kong. He also talked about the future application of Internet of Things (IoT) in electricity safety and disaster prevention for the low-voltage power grid. In attendance were his colleague Prof. Mingli Chen and representatives from FPSB as well as the Shenzhen Power Supply Bureau, which awarded RMB2,750,000 for Prof. Du to undertake the initial phase of the lab development in July 2019.

成立「聯合低壓創新實驗室」簽約 儀式

福田供電局與理大為成立「聯合低壓創新實驗室」, 於2019年八月二十二日在深圳舉行簽約儀式。為了回應 本地對供電安全的關注,預防因配電及用電而起的災害, 實驗室將主力研究提升低壓電網安全性及可靠性的重點 技術。代表福田供電局出席簽約儀式的是該局局長 薑林福先生。他在席上介紹了實驗室的資料及計劃;作為 科研、產品開發及制訂業界標準的基地,實驗室將成為 香港與深圳在產學研合作上的榜樣。

理大代表是屋宇設備工程學系杜亞平教授。杜教授 分享了香港使用低壓電力裝置的經驗和做法,又談到未來 如何應用物聯網來保障低壓電網的電力安全和預防災害。 當天見證簽約儀式者,還有同樣來自屋宇設備工程學系 的陳明理教授,以及福田供電局和深圳供電局的代表。 早於2019年七月,深圳供電局已向杜亞平教授撥款 二百七十五萬元人民幣,作為建立實驗室的首期費用。



At the signing ceremony

Technical Seminar on Modular Integrated Construction

To promote modular integrated construction (MiC) in Hong Kong, a technical seminar on the topic was held on 11 July 2019 at the InterContinental Grand Stanford Hotel. Jointly organized by the Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) (CNERC) and the Hong Kong Constructional Metal Structures Association (HKCMSA), the seminar provided a platform for engineers and researchers to share the latest applications of MiC in both public and private buildings. Mr K. K. Chan, Chairman of the Construction Industry Council (CIC), officiated at the opening ceremony, where 2 Memoranda of Understanding (MoU) for research collaboration were signed between CNERC and the Centre for Advanced Manufacturing of Prefabricated Housing (CAMP.H), The University of Melbourne, on the one hand, and between CNERC and SenseTime Group Ltd. on the other.

Supported by the Construction Innovation and Technology Fund, the seminar featured 8 presentations from well-known scholars and practitioners, including one from Prof. Kwok-fai Chung, Director of the Hong Kong Branch of CNERC. About 350 participants attended the seminar, including Ir Eric Ma, former Secretary for Development of the Hong Kong Government, Ir Dr Richard Pang of the CIC, and Prof. Chi-sun Poon, Head of the Department of Civil and Environmental Engineering (CEE).

組裝合成建築法技術研討會

為了促進組裝合成建築法在香港的應用,國家鋼 結構工程技術研究中心香港分中心與香港建築金屬結構 協會於2019年七月十一日假海景嘉福洲際酒店合辦 技術研討會,讓工程師及研究人員分享組裝合成建築法 在公、私營建築物的最新應用情況。研討會由建造業議會 主席陳家駒先生主禮;席上,國家鋼結構工程技術研究 中心香港分中心簽署了兩份科研合作備忘錄,協約方分別 為墨爾本大學先進預製房屋中心及商湯科技集團有限 公司。

此活動獲建造業創科基金支持,邀請了八位知名 學者及業內人士發表口頭報告,其中一位為國家鋼結構 工程技術研究中心香港分中心主任鍾國輝教授。約三百 五十位參加者中,包括發展局前局長馬紹祥工程師、 建造業議會的彭沛來博士工程師,以及土木及環境工程 學系系主任潘智生教授。



Prof. Kwok-fai Chung giving a presentation

Forum for HK and Guangdong to Collaborate on PV Development

A forum to promote collaboration on photovoltaic (PV) development between Hong Kong and Guangdong was held on 31 May 2019 at PolyU. As a driving force of renewable energy, the application of solar PV systems has surged since the HK Government's launch of its Feed-in Tariff scheme last year. Providing a platform for stakeholders to share experiences in recent local solar PV applications, the forum attracted about 130 delegates from the government, academia, and industry. Local organizers included Prof. Hong-xing Yang, Prof. Lin Lu, and Dr Xi Chen of the Department of Building Services Engineering, who arranged a visit to a solar farm in Hong Kong for the delegates from Guangdong after the forum.

太陽能光伏發電粵港合作論壇

理大於2019年五月三十一日舉辦太陽能光伏發電 粵港合作論壇。太陽能光伏系統是重要的可再生能源, 自特區政府去年推出上網電價補貼計劃後,全港對該系 統的需求激增。理大舉辦論壇,旨在讓持份者就本地在 這方面的最新發展交流經驗。在接近一百三十位出席者 中,包括政府、學術界及業界中人。論壇的港方籌辦 人有屋宇設備工程學系的楊洪興教授、呂琳教授及陳曦博 士,陳博士更特別安排與會的廣東代表在會後參觀本 地的太陽能發電場。



A visit to a solar farm

2019 China Innovation and Entrepreneurship Fair

The 2019 China Innovation and Entrepreneurship Fair was held in Guangzhou on 21 June. One of the products exhibited there was an anti-heat stress uniform developed by Prof. Albert Chan of the Department of Building and Real Estate. Selected as a project for inspection by the mayor of Guangzhou city, the Secretary of the China Science and Technology Association and Deputy Chair, as well as the Secretary of the Guangzhou Association for Science and Technology, the exhibition on the anti-heat stress uniform attracted much attention and won a prize for featuring the technological result most worthy of investment. An interview with representatives of PolyU's Institute for Entrepreneurship on the product was conducted by China National Radio. Details are at http://api.newsapp.cnr.cn/html/shareScene/index.html? inquireId=1657&reportId=18820&from=singlemessage

2019年中國創新創業成果交易會

由建築及房地產學系陳炳泉教授研發的抗熱工衣, 在2019年六月二十一日於廣州舉行的中國創新創業 成果交易會上大放光芒,不僅被廣州市長、中國科學技術 協會副主席兼書記,以及廣州市科學技術協會書記選為 視察項目,更榮獲「最具投資價值科技成果獎」。 另外,理大企業發展院代表亦接受了中央人民廣播電台 訪問,詳細介紹抗熱工衣。有興趣聆聽訪問內容者, 可點擊: http://api.newsapp.cnr.cn/html/shareScene/index.html?inquireId=1657&reportId=18820&from= singlemessage



At the fair

25th Hong Kong International Education Expo

To find out more about the opportunities for higher education at local and overseas universities, hundreds of secondary students and their parents gathered at the 25th Hong Kong International Education Expo at the Hong Kong Convention and Exhibition Centre on 18 and 19 May 2019. Representatives of many educational organizations including PolyU were there to promote their programmes of study. With coordination from the Secondary School Relations Section of the Office of Undergraduate Studies, the Faculty of Construction and Environment (FCE) was represented by Mr Wai Kei Kong of the Department of Building and Real Estate (BRE), Prof. Shiu-keung Tang of the Department of Building Services Engineering (BSE), and Dr Yu-hong Wang of the Department of Civil and Environmental Engineering (CEE). They provided information to prospective students on the courses available at FCE and answered enquiries from the public.



Representatives of PolyU at the Expo

第二十五屆香港國際教育展

不少中學生及家長在2019年五月十八至十九日前往 香港會議展覽中心,參觀在該處舉辦的第二十五屆香港 國際教育展,以獲得有關在本地及海外升讀大學的資訊。 與眾多院校一樣,理大亦有派員宣傳大學各項課程。 在大學本科生學務處轄下的中學關係組協調下,建設及 環境學院派出了三位同事為這些準大學生提供本院課程 的資訊,並回答公眾查詢。三人分別是建築及房地產 學系江偉基先生、屋宇設備工程學系鄧兆強教授,以及 土木及環境工程學系王予紅博士。



Collaboration Meeting with the HK-ZH-Macau Bridge Administration Bureau

On 13 June 2019, a delegation from the Hong Kong-Zhuhai-Macau Bridge Administration Bureau visited PolyU to discuss a framework for collaborating on scientific research between them. Led by its Bureau chief, Mr Shun Chao Zheng, the 9-member delegation met with Dr Miranda Lou, PolyU's Executive Vice President, Prof. Xiaoli Ding, Associate Dean (Partnership) of the Faculty of Construction and Environment, Mr Kelvin Wong, Deputy Director of the Institute for Entrepreneurship, Prof. Yong Xia and Dr You Dong, colleagues from the Department of Civil and Environmental Engineering (CEE), as well as Ms Iris Tang, Development Manager of the Chinese Mainland Affairs Office. In addition, the delegation visited CEE and the House of Innovation. They also had a chance to meet Prof. Jin-Guang Teng, the incoming President of PolyU, before the end of their visit.

港珠澳大橋管理局代表來訪相談 合作事宜

港珠澳大橋管理局代表團於2019年六月十三日到 訪理大,商討雙方在科研合作上的框架安排。代表團 一行九人,由管理局局長鄭順潮先生帶領,與會的我方 代表包括理大行政副校長盧麗華博士、本院副院長 (協作)丁曉利教授、企業發展院副總監Kelvin Wong先 生、土木及環境工程學系的夏勇教授和董優博士,以 及中國內地事務處拓展主任鄧妙霞女士。代表團亦參觀 了土木及環境工程學系及企業發展院轄下的創新館, 並與當時的候任校長滕錦光教授會面。



At the collaboration meeting

Collaboration with Government in Smart City Tree Management Project

In a collaboration with the Development Bureau of the Hong Kong Government and other institutions, PolyU has provided the technology for a Jockey Club Smart City Tree Management Project to monitor the stability of trees in the city. Smart sensing technology and geographic information systems have been applied to analyze the root-plate stability of local trees since the project began in February of 2018. Led by Dr Charles Wong of the Department of Land Surveying and Geo-Informatics (LSGI), the 3-year project has installed tailor-made sensors on the lower trunks of selected urban trees that monitor their tilting angles. Data collected are expected to facilitate timely mitigation measures for sustaining longer tree lives. Widely reported in various online media, including the blog of the Secretary for Development οf the Hong Government Kong (https://www.devb.gov.hk/en/home/my_blog/index_ id_342.html), the technology was also showcased in a Tree Movement Monitoring Console at the Smart Government Innovation Lab that was launched at the end of May 2019.

與政府合作推行智慧城市樹木管理 計劃

理大與特區政府發展局及多家機構合作,為「賽馬 會智慧城市樹木管理計劃」提供所需技術,大學已為 監察樹木穩定性提供所需的技術。該計劃由土地測量及 地理資訊學系的黃文聲博士領導,於2018年二月 啟動,為期三年。根據合作協定,理大需運用智慧傳 感技術及地理信息系統分析樹幹底部的穩定性,而為了 達致上述目標,研究團隊在特選的市區樹木底部安裝了 特製傳感器,藉此監察樹木的傾斜角度。所得數據預計 有助當局及時採取適當措施,延長樹木壽命。這項嶄新 技術除獲包括發展局局長網誌的網上媒體廣泛報導, 更於2019年五月底啟用的智慧政府創新實驗室中, 以「樹木移動監察控制台」的形式展出。



Dr Charles Wong showing a sensor on a tree trunk

Academic Exchange between PolyU and NJU

From 15 to 17 July 2019, a group of research students from FCE visited Nanjing University (NJU) for the Young Scholar Symposium on Sustainable Urban Governance. Led by Prof. Geoffrey Shen, Associate Dean (Teaching), they presented their research and participated in a session on advancing governance ability for sustainable cities with some mainland researchers. They also visited Sponge City Park in the Qixia district of Nanjing, the Nanjing Museum, and the city's Urban Planning Exhibition Hall. Funded by the Ministry of Education in China under its Ten Thousand Students' Programme and hosted by the School of Government of Nanjing University, the exchange provided a great learning experience in sustainable urban development and governance for all who participated.

RICS Accreditation Visit

A 3-member panel of the Royal Institution of Chartered Surveyors (RICS) visited the Faculty of Construction and Environment (FCE) on 14 June 2019 in connection with the accreditation of the MSc programme in Facility Management. It was introduced to FCE by its Acting Dean, Prof. Geoffrey Shen, and the Department of Building Services Engineering (BSE) by its Head, Prof. Asif Usmani. In attendance were its Associate Heads, Dr Wai Ling Lee and Prof. Shiu Keung Tang, as well as the leader of the MSc programme in Facility Management (FM), Dr Joseph Lai. After a tour of various departmental facilities, the panel met with some FM students and industry representatives. It also went on a tour of the university library, where its facilities for Digital Makerspace, the Digital Visualization Room, and 2 studios particularly impressed the panel members. Student work and course work were subsequently reviewed by the panel before a meeting with a few academic staff of the MSc programme. The panel presented its summary and findings to Prof. Shen, Prof. Usmani, Dr Lee, and Dr Lai before the end of its visit, and recommended that the programme be accredited for another five years.

In connection with the re-accreditation of the MSc and BSc programmes in Geomatics, a panel from the Royal Institution of Chartered Surveyors (RICS) met with the programme team of the Department of Land Surveying and Geo-Informatics (LSGI) on 5 July 2019. The 3-member panel was introduced to LSGI by its Department Head, Prof. John Shi. In attendance were Dr Lilian Pun, Associate Head in Teaching, Dr Wallace Lai, the BSc programme leader, and Dr Bo Wu, the MSc programme leader. In addition to meeting Mr Alan Kwong, Senior Manager of CLP Power HK Ltd. and an external member of the Departmental Advisory Committee, Mr Nick Inatey and Mr Thomson Lai of RICS met with 2 students in each of the programmes. Subsequently, the panel from RICS presented their summary and findings to the LSGI programme team, including its recommendation to re-accredit the two programmes for 5 more years.

理大與南京大學作學術交流

建設及環境學院一群研究生在2019年七月十五至 十七日到訪南京大學,出席「可持續城市治理青年學者 論壇」。眾人由副院長(教務)沈岐平教授率領,除了在 會上作口頭報告,亦與一些內地研究員一起參加了一個 有關提升管治可持續城市能力的討論環節。進行學術 交流之餘,他們亦趁機遊覽南京栖霞區海綿濕地公園、 南京博物院及南京市規劃建設展覽館。是次活動由國家 教育部「香港與內地高校師生交流計劃」贊助、南京大學 政府管理學院負責接待,對參與的研究生來説,是學習 可持續城市發展及治理的寶貴機會。



Participants of the academic exchange

皇家特許測量師學會給予課程認證

皇家特許測量師學會(RICS)一個三人代表團於 2019年六月十四日到訪本院,商談「設施管理理學碩士 課程」的認證安排。與會的本院代表包括署理院長沈岐平 教授及屋宇設備工程學系系主任Asif Usmani教授, 列席者則有該系副系主任李慧玲博士及鄧兆強教授,以 及「設施管理理學碩士課程」主任黎鴻傑博士。參觀學系 設施後,三人獲安排與該課程的學生及業界代表見面。 另外,代表團亦參觀了大學圖書館,對當中的「數碼 工作間」、「數碼視像室」及兩個工作室留下深刻印象。 與負責該課程的學術人員開會前,他們檢視了學生的 作品及專題習作,並在結束行程前向沈教授、Usmani 教授、李博士及黎博士提出總結,建議繼續給予該課程 為期五年的認證。

2019年七月五日,皇家特許測量師學會屬下的 工作小組與土地測量及地理資訊學系的課程小組 會面,商討重新認證「測繪及地理資訊學」理學碩士及 學士課程的事宜。系主任史文中教授向與會的三位測量 師學會代表介紹了學系的情況,列席者包括副系主任 (教務)潘鄭淑貞博士、理學學士課程主任賴緯樂博士, 以及理學碩士課程主任吳波博士。除中華電力有限公司 高級經理 Alan Kwong先生和學系諮詢委員會一位校外 成員,學會的 Nick Inatey 先生及 Thomson Lai 先生 還會見了每項課程的兩位同學。工作小組其後向土地 測量及地理資訊學系課程小組提出總結,包括建議在 未來五年繼續給予學系兩項課程認證。



The panel from RICS with some FCE staff

Trinity College 2019 Summer Field Course

On 24 June 2019, 14 undergraduates and 4 academic staff from Trinity College in Hartford, Connecticut, visited the Faculty of Construction and Environment (FCE). Led by Prof. Xiangming Chen, Dean and Director of the Center for Urban and Global Studies at Trinity College, the students were introduced to FCE and the Greater Bay Area by Prof. You-Lin Xu, Dean of FCE. Subsequently, Prof. William Lam, Head of the Department of Civil and Environmental Engineering, gave a presentation on intelligent transportation, and Dr Yang Xu of the Department of Land Surveying and Geo-Informatics gave a presentation on smart cities. These talks stimulated discussions and exchanges of ideas and collaboration between FCE and Trinity College.

美國聖三一學院師生來訪

2019年六月二十四日,美國聖三一學院派出十四位 本科生及四位教學人員到訪本院。聖三一學院位於康涅 狄格州哈特福德市,訪問團團長為學院轄下都市及全球 研究中心教務長兼主任陳向明教授。院長徐幼麟教授向 來訪的同學介紹本院及大灣區概況後,便由土木及環 境工程學系時任系主任林興強教授與土地測量及地理 資訊學系的徐陽博士,分別闡述智能運輸及智慧城市兩 大課題。這不僅有助雙方展開討論和交流意見,更可加 強彼此合作。



The Trinity students at FCE

Secondary Students from GBA Visit FCE

On 5 July 2019, about 150 mainland students from secondary schools in the Greater Bay Area (GBA) who were participants in the GBA Drone Competition visited the Faculty of Construction and Environment (FCE) to learn about the applications of innovative technology in a smart city. They were introduced to FCE and its undergraduate programmes before being led on a tour of some of its laboratories, including those with a specific focus such as transport, water, fire, smart city, and smart digital construction. It is hoped that some of these students from the GBA would be inspired by our programmes and facilities to pursue further studies at FCE.

大灣區中學生參觀建設及環境學院

2019年七月五日,約一百五十名參加「大灣區 無人機大賽」的大灣區中學生到訪建設及環境學院,觀摩 創新科技在智慧城市的應用情況。他們聆聽有關本院及 各項本科課程的資料後,獲安排參觀諸如交通運輸、 水資源、消防、智慧城市、智能數碼建築等專題實驗室。 我們期望這些大灣區學生中,部分會對本院課程及設施 留下印象,並選擇在本院升學。



GBA students with a few FCE staff (front)

FCE Annual Forum

To share successful experiences of applying for external research funding, the Faculty of Construction and Environment (FCE) held its annual forum on 29 August 2019. More than 80 scholars, researchers and students attended. Prof. You-Lin Xu, Dean of FCE, gave an opening speech, after which Dr Xinyan Huang of the Department of Building Services Engineering (BSE) and Dr Charles Wong of the Department of Land Surveying and Geo-Informatics (LSGI) shared their experiences in writing proposals for the Early Career Scheme and the General Research Fund of the Hong Kong Research Grants Council (RGC) respectively. Prof. Chi-Sun Poon then added his views as a member of the RGC engineering panel. Shedding light on getting funding from the RGC Theme-based Research Scheme was Prof. Asif Usmani, Head of BSE. Also recounting his successful experience in securing the Research Impact Fund was Prof. Yi-ging Ni of CEE.

In addition, Prof. Meng Ni of the Department of Building and Real Estate (BRE) talked about recruiting quality candidates for the HK PhD Fellowship, and Dr Ben Leu of CEE shared his experience of passing the major review exercise. Following an open discussion, Prof. Xiangdong Li, Associate Dean (Research), concluded the forum.



At the forum

Orientation for TPg Students

More than 180 full-time new students of FCE taught postgraduate (TPg) programmes had their orientation on 26 August 2019. They were welcomed and introduced to FCE by Prof. You-Lin Xu, Dean of FCE. Associate Dean (Teaching) Prof. Geoffrey Shen introduced the Postgraduate Scheme in Construction and Environment before the 4 departments of FCE were introduced by Prof. Michael Yam, Acting Head of BRE, Prof. Asif Usmani, Head of BSE, Prof. Chi-sun Poon, Head of CEE, and Prof. John Shi, Head of LSGI. New students were also introduced to the Mental Wellness Clinic before they met with their programme leaders.



Prof. You-lin Xu

建設及環境學院周年論壇

建設及環境學院於2019年八月二十九日舉行周年 論壇,分享向研資局申請競爭性科研撥款的成功經驗, 超過八十位學者、研究人員及同學出席。院長徐幼麟教授 致開幕辭後,屋宇設備工程學系黃鑫炎博士、土地測量 及地理資訊學系黃文聲博士首先分別講述撰寫建議書, 申請研資局「傑出青年學者計劃」及「優配研究金」的 心得。潘智生教授接著以研資局工程學科小組成員身份 提出意見。屋宇設備工程學系系主任Asif Usmani教授 則聯同土木及環境工程學系倪一清教授,分別闡述申請 「主題研究計劃」及「研究影響基金」的竅門。

「香港博士研究生獎學金計劃」方面,建築及房地產 學系倪萌教授談到了吸引優秀申請人的策略;土木及 環境工程學系呂紹元博士則與大家分享通過主要檢討工作 的經驗。自由討論環節結束後,論壇便由副院長(科研) 李向東教授發表總結發言。



Prof. Xiangdong Li

碩士課程迎新活動

逾一百八十名在新學年於本院修讀全日制碩士課程 的學生,在2019年八月二十六日參加專為他們而設 的迎新講座。院長徐幼麟教授致歡迎辭及簡介本院資料 後,隨即由副院長(教務)沈岐平教授講解「建設及環境 碩士課程組合」。四大學系方面,建築及房地產學系署理 系主任任志浩教授、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潘智生教授, 以及土地測量及地理資訊學系系主任史文中教授亦有 出席,分別闡述所屬學系的情況。新生與課程主任見面 前,亦聆聽了有關「伴理同行保健服務」的介紹。



New TPg students

Orientations for New Undergraduates

On 27 August 2019, incoming freshmen of undergraduate degree and Higher Diploma (HD) programmes of the Faculty of Construction and Environment (FCE) attended an orientation held by their respective departments. Introducing the Department of Building and Real Estate (BRE) to its new students was Acting Head Prof. Michael Yam. At the other orientations, the Department of Building Services Engineering (BSE) was introduced by its Head, Prof. Asif Usmani, while Prof. Chi-sun Poon, Head of the Department of Civil and Environmental Engineering (CEE), and Prof. John Shi, Head of the Department of Land Surveying and Geo-Informatics (LSGI), also did the same with their own department. Following each of the departmental introductions programme briefings. Among those were introducing the departments' programmes were various programme leaders, including Dr Hongqin Fan, Ms Hebe How, Dr Patrick Fong, and Mr Wai-kei Kong from BRE, Dr Horace Mui and Dr Hilda Cheung from BSE, Dr Yuhong Wang, Dr Ben Leu, Dr Yi Jiang, Dr Songye Zhu, Dr Dan Tsang and Dr Barbara Siu from CEE, as well as Dr Wallace Lai and Dr Wai-yang Yan from LSGI.

In addition, representatives of various administrative and supporting units of PolyU introduced their services at all or some of the orientations. They included the Office of General University Requirements, the Centre STARS (Student Advancement and Resources), the Industrial Centre, the University Library, the Chinese Mainland Affairs Office, the Health, Safety and Environment Office, and the University Health Service.

本科生迎新活動

2019年八月二十七日,建設及環境學院屬下各 學系為學士及高級文憑課程新生舉辦了迎新簡介會,四大 學系均派員主講,包括建築及房地產學系的署理系主任 任志浩教授、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潘智生教授,以及土地 測量及地理資訊學系系主任史文中教授。

學系簡介完畢後,便由各課程主任發言。理大多個 行政及支援部門亦有派員出席全部或部分簡介會介紹其 部門的工作及服務,包括大學核心課程事務處、學生發 展及資源中心、工業中心、大學圖書館、中國內地事務 處、健康安全及環境事務處和大學醫療保健處。



At the LSGI orientation



At the BRE orientation

PolyU Summer Programme 2019

To engage secondary students in its programmes of study, the departments of PolyU recently introduced various activities highlighting their respective programmes. The programme of the Department of Building and Real Estate (BRE) was hosted by its Associate Head (Partnership) Prof. Eddie Hui. Prof. Albert Chan, Head of BRE, welcomed the secondary students, who were subsequently introduced to BRE programmes, the Smart Construction Laboratory, the Modular Integrated Construction Display Centre as well as the Construction Innovation and Technology Application Centre. Students also had the opportunity to engage in some games related to construction.

The Department of Building Services Engineering (BSE) held its summer programme on 9 July 2019. 36 secondary students attended a briefing on the department and visited a lab to see a laboratory demonstration before going to Hong Kong Disneyland to learn about the centralized absorption chiller plant for 3 hotels near the theme park. They also visited the heat pump and boiler room as well as the emergency generator room at Hollywood Hotel.

理大暑期活動 2019

為了讓中學生提早體驗大學生活,理大各學系在 2019年暑假相繼推出各類活動,重點介紹旗下課程。 建築及房地產學系的活動由副系主任(協作)許智文教授 主持,系主任陳炳泉教授親自發表歡迎辭。參加者不但 有機會了解該系開辦的各項課程,還獲安排參觀智能建築 實驗室、組裝合成建築法展示中心,以及創新建築科技 應用中心,並有機會參與一些和建築有關的遊戲。

屋宇設備工程學系的暑期活動於2019年七月九日 舉行。三十六名中學生首先出席一個有關學系的簡佈會, 並到學系其中一個實驗室觀看現場示範。眾人其後獲 安排前往香港迪士尼樂園,參觀主題公園附近三幢酒店 共用的中央吸收式冷水機組,以及迪士尼好萊塢酒店的 熱泵、鍋爐房及緊急發電機房。

土木及環境工程學系則於2019年六月二十六日及 二十七日,分別為三十及五十名中學生提供培訓。除了 介紹學系各項課程,以及舉辦小型講座講解土木及環境 工程師如何推動可持續發展,學系還安排同學參觀數個 實驗室和理大校園,並參與隊際「膠管建橋比賽」。

土地測量及地理資訊學系方面,有四十名中學生 參與在2019年七月八日舉辦的暑期活動。除有機會 了解學系開辦的各項課程,他們也參加了一個關於衛星 影像處理的工作坊,以及參觀多個實驗室、理大創新館 及賽馬會智齡匯。 The Department of Civil and Environmental Engineering (CEE) provided 2 days of training for 30 secondary students on 26 June 2019 and 50 students on 27 June 2019. In addition to introductions to some of its programmes and a mini lecture on the role of civil and environmental engineers to drive sustainable growth, students visited several departmental labs, toured the PolyU campus, and participated in a team-based competition to build a plastic stick bridge.

40 secondary students participated in the summer programme held by the Department of Land Surveying and Geo-Informatics (LSGI) on 8 July 2019. Besides learning about its undergraduate programmes, they also attended a workshop on satellite image processing, visited LSGI laboratories, the House of Innovation and the Smart Aging Hub.



Participants of the LSGI summer programme



Participants of the BSE summer programme



Participants of the CEE summer programme with some CEE academic staff



Participants of the BRE summer programme

Faculty Public Lectures



Prof. Shanhui Fan, Senior Fellow of the Precourt Institute for Energy and Director of the Edward L. Ginzton Laboratory at Stanford University, gave a public lecture entitled "Concepts of Nanophotonics and Energy Applications." (29 July 2019)



Prof. Dr.-Ing. Liqiu Meng,

Professor of Cartography in the Department of Civil, Geo and Environmental Engineering at the Technical University of Munich in Germany and Distinguished Chair Professor in Geographic Information Science and Cartography at PolyU, gave a distinguished lecture entitled "The learning and unlearning challenges along the value chain of geospatial data." (3 October 2019)

Invitation for Programme Admissions 2020/21 2020/21課程招生

Both local and international students are welcome to apply.

本地及海外學生均歡迎申請。

Doctoral Programme	博士課程	Department
International Real Estate and Cobstruction ¹	國際房地產及建築	BRE
Master of Science (MSc)/Postgraduate Diploma (PgD)	理學碩士/深造文憑	Department
Building Services Engineering	屋宇設備工程學	BSE
Civil Engineering	土木工程學	CEE
Construction and Real Estate	建築及房地產學	BRE
Construction Law and Dispute Resolution	建築法及爭議解決學	BRE
Environmental Management and Engineering	環境管理及工程學	CEE
Facility Management	設施管理	BSE
Fire and Safety Engineering	消防及安全工程學	BSE
Geomatics (Geographic Information Systems)	測繪及地理資訊學(地理資訊)	LSGI
Geomatics (Surveying)	測繪及地理資訊學(測量)	LSGI
High Performance Buildings	高效能建築	BSE
International Real Estate ²	國際房地產	BRE
Project Management	項目管理	BRE
Sustainable Urban Development	可持續城市發展學	FCE
Urban Informatics and Smart Cities	城市信息學及智慧城市	LSGI
Bachelor's Degree	學士學位	Department(s
Building Engineering and Management	建築工程及管理學	BRE
Building Services Engineering	屋宇設備工程學	BSE
Civil Engineering	土木工程學	CEE
Environmental Engineering and Sustainable Development	環境工程與可持續發展學	CEE
Environmental and Occupational Safety and Health (Top-up Degree Programme)	環境及職業安全與健康	CEE
Land Surveying and Geo-Informatics	土地測量及地理資訊學	LSGI
Property Management	物業管理學	BRE
Structural and Fire Safety Engineering	結構及消防安全工程學	CEE & BSE
Surveying	地產及建設測量學	BRE
Higher Diploma	高級文憑	Department
Building Services Engineering	屋宇設備工程學	BSE
Building Technology and Management (Engineering)	建築科技及管理學(工程)	BRE
Building Technology and Management (Surveying)	建築科技及管理學(測量)	BRE
Civil Engineering	土木工程學	CEE

¹ Subject to approval, programme is offered at PolyU and its Hangzhou outpost
² 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	Department of Building	Faculty of Construction	Department of Civil	Department of Land
Building and Real	Services Engineering	and Environment	and Environmental	Surveying and
Estate (BRE)	(BSE)	(FCE)	Engineering (CEE)	Geo-Informatics (LSGI)
建築及房地產學系	屋宇設備工程學系	建設及環境學院	土木及環境工程學系	土地測量及地理資訊學系
2766-5807/5808/7770	3400-3597	3400 8496	2766-6068	2766-5968
www.bre.polyu.edu.hk	www.bse.polyu.edu.hk	www.polyu.edu.hk/fce	www.cee.polyu.edu.hk	www.lsgi.polyu.edu.hk

Tentative Application Periods 暫定報名日期

Master's Degree/ Postgraduate Diploma Programmes 碩士及深造文憑課程	Local applicants 本地申請人: 26 September 2019 — 30 April 2020 For details, please visit the www.polyu.edu.hk/study 詳情請參閱 www.polyu.edu.hk/study
Full-time Bachelor's Degree and Sub-Degree Programmes 全日制學士學位及非學位課程	Local applicants 本地申請人: 26 September 2019 — 10 February 2020 Non-local applicants 非本地申請人: 18 September 2019 — 28 February 2020 Students applying on the basis of current year Joint Entrance Examination (JEE) results 內地應屆高考生: 1 November 2019 — 11 June 2020

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 Registry 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:

ar.tpg@polyu.edu.hk	Master's/ Postgraduate Diploma programmes 理學碩士及深造文憑課程
ar.ug@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
ar.intl@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
ar.jee@polyu.edu.hk	Full-time Bachelor's degree & sub-degree programmes – non-local applicants applying on the basis of current year Joint Entrance Examination (JEE) results 全日制學士學位及非學位課程 — 非本地申請人 (內地應屆高考生)

Construction and Environment is published by the Faculty of Construction and Environment for students, staff, alumni and friends of the Faculty. The magazine contains information known as of December 2019. For an electronic version of the magazine, please visit www.polyu.edu.hk/fce/pb_fce_news.html. You may also choose to subscribe for it and other Faculty publications there.

《建設與環境》由香港理工大學建設及環境學院出版,派發予學生、教職員、 校友及各界友好。本期通訊內容截至2019年12月為準。電子版本可於 http://www.polyu.edu.edu.hk/fce/pb_fce_news.html瀏覽。你亦可在該 網頁選擇訂閱此院刊及一些其它學院刊物。

Editor-in-chief:	Prof. Xiaoli DING	總編輯:	丁曉利教授
Executive Editor:	Nancy C.W. LAI	執行編輯:	黎志華女士
Advisory Editor:	Ir Prof. You-lin XU	顧問編輯:	徐幼麟教授工程師
Editorial Board:	Prof. Eddie Hui Dept. of Building and Real Estate	編輯委員會:	許智文教授 建築及房屋地產學系
	Prof. Shiu-keung Tang Dept. of Building Services Engineering		鄧兆強教授 屋宇設備工程學系
	Prof. Siu-lai CHAN Dept. of Civil and Environmental Engineering		陳紹禮教授 土木及環境工程學系
	Dr George LIU Dept. of Land Surveying and Geo-Informatics		劉志趙博士 士地測量及地理資訊學系
We welcome your co Please send all corr	omments and articles. espondence to:	歡迎投稿,所	所有稿件請交

Faculty of Construction and Environment The Hong Kong Polytechnic University Hung Hom, Kowloon, Hong Kong

Tel:(852) 3400 3199Fax:(852) 2362 2574Email:clfce@polyu.edu.hk

電話:(852)3400 3199 傳真:(852)2362 2574 電郵: clfce@polyu.edu.hk

香港理工大學建設及環境學院

香港九龍紅磡

《建設與環境》收