

**BUILDING  
AND  
REAL ESTATE  
DEPARTMENT  
POLYU**



## Introduction

Established in the 1930s, the Department of Building and Real Estate, in pursuit of excellence through innovative education, application-oriented research and strong global connections, has developed a leading position in providing a wide range of comprehensive academic programmes that nurture all-round graduates for the building and real estate industry, one of the largest and most competitive industries in the region. Our international multi-disciplinary academic and teaching staff actively participates in a wide variety of quality application-oriented research projects and consultancies that contribute to the academic community, the government, industry, professional practice, professional bodies, and the society. In order to support the continuing professional development of the community, we provide opportunities for networking and knowledge transfer through a series of campaigns. The continuing strong bonds with the industry and with our alumni are crucial to our sustainable success in pursuit of our vision.

### 1937 – 1963



**Building Department, Government Trade School\* / Hong Kong Technical College\***

*(one of the earliest departments in PolyU)*

### 1964 – 1973

**Department of Building, Surveying and Structural Engineering, Hong Kong Technical College / Hong Kong Polytechnic\***



### 1973 – 1993



**Department of Building and Surveying, Hong Kong Polytechnic**

### 1993 – Now

**Department of Building and Real Estate, Hong Kong Polytechnic / Hong Kong Polytechnic University**



\*Forerunners of PolyU

# STAFFING >>

## Academic / Teaching Staff

### INTERIM HEAD



**YAM Chi Ho, Michael (Dr) 任志浩**

*BSc, MSc, PhD, MASCE, MIPENZ, PEng, MHKICM, MHKIE, RPE*

**Research interests:**

- Structural steel design, Connections
- Full scale testing of structural members, Structural rehabilitation
- Construction Safety, Construction Management

### ASSOCIATE HEADS



**CHAN Hon Wan, Edwin (Prof) 陳漢雲**

*BA(AS), PgDip(Arch), MA(Arch), LLB, PgD(PRC Law), PhD, Barrister Finals, MEng, FHKICM, FHKI Arb, RIBA, MRICS*

**Associate Head (Research)**

**Research interests:**

- Real Estate development control
- Green/Healthy building
- Construction law/ Dispute management
- Policy and regulatory for construction and Real Estate



**CHIANG Yat Hung, (Prof) 蔣日雄**

*BA(AS), BBIgd, MBA, PhD, MRICS, MHKIS, MCIÖB, RPS(QS)*

**Associate Head (Teaching)**

**Research interests:**

- Construction economics, real estate finance & investment, strategic management



**FONG Sik Wah, Patrick (Dr) 方識華**

*BSc(Hons), MSc, PhD, MRICS, MHKIS, MIVM*

**Associate Head (Partnership)**

**Research interests:**

- Knowledge management
- Innovation management
- Individual/ Team/ Organizational Learning

### CHAIR PROFESSORS



**LI Heng (Prof) 李恒**

*BE, ME, PhD(Syd.), MAIB, MAIQS, MHKIE*

**Chair Professor of Construction Informatics**

**Research interests:**

- Construction Virtual Prototyping Technology
- Construction Management and Innovative Technology



**SHEN Qiping, Geoffrey (Prof) 沈岐平**

*BEng, PhD, FRICS, FHKIVM, VMF (List A)*

**Associate Dean of Faculty of Construction and Environment, Chair Professor of Construction Management**

**Research interests:**

- Construction Project Management
- Collaborative Working in Construction
- Value Management and Partnering
- Construction Information Technology
- Sustainable Development

### PROFESSORS



**CHAN Ping Chuen, Albert (Prof) 陳炳泉**

*MSc (Aston), PhD (S. Aust.), FCIÖB, FAIB, FHKICM, FHKIE, MAIPM, MIEAust, MAIQS, MRICS, Hon. FHKIPM, RPE(Bldg)*

**Research interests:**

- Project Management & Project Success
- Project Finance & Public Private partnerships (PPP)
- Construction Procurement & Relational Contracting
- Construction Industry Development
- Construction Health and Safety



**HUI Chi Man, Eddie (Prof) 許智文**

*BSc(Hons), MPhil(Cantab), PhD (Cantab), MRICS, MHKIS, MHKICM, FHKIR*

**Research interests:**

- Real Estate and Housing
- Project Appraisal/Economic Analysis
- Property Management
- Real Estate Investment and Finance

### PROFESSORS



**WONG Kwan Wah, Francis (Prof) 黃君華**

*BSc(Hons), MSc, PhD, FCIÖB, FHKIE, FHKICM, RPE(Bldg), ARICS, MCI Arb, MCMI, MIOSH*

**Research interests:**

- Construction Safety Management
- Affordable Housing Development



**CHAN Wai Ming, Daniel (Dr) 陳煒明**

*BEng(Hons), PhD, MAPM, MHKICM, MASCE, MHKIPM, MAIPM*

**Research interests:**

- Construction Time Performance (CTP)
- Construction Procurement Systems
- Relational and Collaborative Contracting
- Project Partnering and Strategic Alliances
- Guaranteed Maximum Price (GMP) and Target Cost Contracting (TCC)
- Public Private Partnership (PPP)
- Construction Safety Management



**CHOY Hung Tat, Lennon (Dr) 蔡鴻達**

*BSc (HK PolyU), MURbanDesign (HK), PhD (HK), MRICS, MHKIS*

**Research interests:**

- New Institutional Economics
- Urban Studies



**LAM Tsun Ip, Patrick (Dr) 林俊業**

*PhD, MSc, Associateship (HKPoly), DipFinance, MHKIS, MHKIE, MHKICM, MSISV, MSIArb, MRICS, MCIÖB, RPE, RPS, CCP*

**Research interests:**

- Procurement Systems
- Project Financing, PPP and Business models
- Construction Contracts and Specifications
- Quality and Buildability issues
- Clean Development Mechanism

## ASSOCIATE PROFESSORS



**FAN Hongqin (Dr) 樊宏欽**  
BSs (Tsinghua University), MSc (University of British Columbia), PhD (University of Alberta), MHKICM

**Research interests:**

- Construction equipment management
- Construction information management
- Decision support system, data mining, text mining
- Sustainable construction
- Engineering education



**NI Meng (Dr) 倪萌**  
BSc, MSc, PhD

**Research interests:**

- Sustainable energy technologies, such as Solid oxide fuel cells and hydrogen energy, solar energy;
- Numerical heat and mass transfer
- Building Energy and Built Environment



**WONG Kam Din, Andy (Dr) 王金殿**  
AP (HK), PhD, MCIQB, MHKIE

**Research interests:**

- Contractual Procedure
- Construction Procurement
- Building Technology and Measurement
- Civil Engineering Measurement
- Quantity Surveying Practice
- Site Management Contract Valuation
- Contractual Claim
- Construction Computing
- Economic of Construction Industry
- Building Services Practices



**YEUNG Chi Wai, Stanley (Dr) 楊志威**  
BSocSc, MSc, PhD, MRTPI, MHKIP, RPP

**Research interests:**

- Socio-political aspect of urban redevelopment
- Regional integration and economic growth
- Housing market development in China
- Urban planning and sustainable development
- Planning gain and social impact assessment

## LECTURERS



**LAU Chi Hong, Milton (Dr) 柳志康**

BSc(Econ), BSc(Land Mgt), BBus, PGC (HK Law), GradDip (URP), MSc(Econ), MBA, MAcc, LLM (CCL), LLM (Chinese Laws), MHKIS, MRICS, MCIREA, RPS(GP), MPA, CPP(Aust), CPA(HK), CPA(Aust)

**Research interests:**

- Property Management
- Property Valuation
- Property Investment and Finance
- Property Law



**LEUNG Yuk Ping, Barbara (Dr) 梁玉萍**

BA(Hons), MPhil, PhD, FAIB, MRICS, MCIQB

**Teaching areas:**

- Property Finance and Investment
- Land and Property Economics



**TANG Sandy (Dr) 鄧麗儀**

M Urban Design, M.A., PhD, MHKIS, MRICS

**Research interests:**

- Procurement and Competitive Bidding
- Contract Practice
- Building Information Modeling



**WONG Yiu Shing, Edmond 黃耀誠**  
HDip(HKP), Asso(HKP), MSc (UMIST)

**Research interests:**

- Building and Maintenance Technology
- Construction Safety

## ASSOCIATE PROFESSORS



**YU Tit Wan, Ann (Dr) 余軼芸**  
BSc, MSc, PhD, MIVM, MHKIVM, MAIB, ICIQB

**Research interests:**

- Requirements Management
- Value Management
- Sustainable Construction
- Project and Construction Management
- C&D Waste Management

## ASSISTANT PROFESSORS



**HO Man Fong, Christabel (Dr) 何曼芳**

BSc (Hon), MSc, PhD, AAQIS, MCIQB, MAIB

**Research interests:**

- Professional and Business Ethics
- Social Corporate Responsibility
- Ethics Management



**MAU Stephen David 繆嘉榮**

BA, LL.M, JD, NH Bar, USDC - NH, US Cir. Ct. App. (1st), MCIArb and HKIAC Accredited Mediator (General)

**Research interests:**

- International trade
- Commercial arbitration
- Construction arbitration



**TSANG Wai Fan, Steven (Dr) 曾偉藩**

BSc, PhD, FASI, FCIQB, FICConstE



**KONG Wai Kei 江偉基**  
BSc, MConstMgt, PDip, PgC, MAIB

**Teaching areas:**

- Construction Technology
- Building Services



**KWONG K. N., Paul 鄺健寧**

LLB (Lond.), MHKBA



**HUNG T. S., Sam 孔德心**  
BSc, LLB, PgDipArb, MBA, MEBus, C.Build E MCABE, MCIArb, MCInstCES, MCIQB, MHKICM

**Teaching areas:**

- Contract Administration
- Construction Contract Law



**KONG C. W., Stephen (Dr) 江展宏**

BSc, MPhil, PhD

**Research interests:**

- e-Commerce
- Virtual Prototyping
- Knowledge Management

## ASSISTANT PROFESSORS



**WONG Kwok Wai, Johnny (Dr) 黃國偉**  
BSc (Hons), MSc, PhD, AAQIS, MRICS

**Research interests:**

- Green/ intelligent building
- Green BIM (Building Information Modeling)
- Age-friendly built environments
- Culture in construction industry



**YUNG Hiu Kwan, Esther (Dr) 容曉君**  
BArch, MSc(CPM), Dip Legal Studies, PhD(HKU)

**Research interests:**

- Urban sustainability
- Built heritage conservation
- Urban planning
- Active ageing



**QIAN Kun, Queena (Dr) 錢坤**  
BSc, MSc, PhD, Fulbright Alumni

**Research interests:**

- Green building promotion
- Building energy efficiency
- Elderly friendly precinct design
- Sustainable urban planning
- Low Carbon City Development

## LECTURERS



**HOW H. H., Hebe 侯瑋芳**  
BBus, GradDip, MSc, MRICS, MCIQB

**Research interests:**

- International Real Estate
- Corporate Real Estate Asset management

## INSTRUCTORS



**LAM W. M., Edmond (Dr) 林偉明**  
BSc, PhD, MAIB, MAPM

**Research interests:**

- Construction Management
- Project Management
- Project Procurement
- Determinants of Project Success
- Safety and Maintenance Practices



**LEUNG Tony 梁啟泉**  
BSc(Land Mgt), PgCert(FM), MA(ArbDR), MEd, TeacherCert, MRICS, MHKIS, AHKIArb, RPS(GP)

**Research interests:**

- Land Resumption
- Urban Renewal
- Real Estate Development,
- Arbitration of Valuation Disputes



**TAN Yongtao (Dr) 譚永濤**  
BE, MSc, PhD

**Research interests:**

- Competitiveness, strategic management and sustainability in construction



**WADU MESTHRIGE Jayantha (Dr)**  
BA, Pg-Dip, MA, PhD

**Research interests:**

- Housing and real estate markets
- Urban redevelopment and property market

MORE



## Administrative, Technical and Research Staff

Apart from academic staff, a brilliant team of administrative and technical staff provides a helping hand for the daily operation of the Department. In addition, there are over 70 research staff members.

MORE





# ACADEMIC PROGRAMMES >>>

# OUTSTANDING ALUMNI >>>



MORE



## LIST OF ALL PROGRAMMES

### PhD/MPhil programmes

Economics and finance for construction and real estate  
Information technology and construction technology  
Planning, development and housing  
Procurement and regulatory innovations  
Project and construction management  
And other areas relevant to the building and real estate field

### MSc programmes

Executive Master in Real Estate Finance (subject to approval)  
Master of Science/Postgraduate Diploma in Construction Law and Dispute Resolution  
Master of Science/Postgraduate Diploma in Construction and Real Estate  
Master of Science/Postgraduate Diploma in Project Management  
Master of Science in International Real Estate – Zhejiang

### BSc (Hons) programmes

Bachelor of Science (Honours) in Building Engineering and Management (JUPAS Code: JS3791)  
Bachelor of Science (Honours) in Property Management (JUPAS Code: JS3442)  
Bachelor of Science (Honours) in Surveying (JUPAS Code: JS3789)

### HD programmes

Higher Diploma in Building Technology and Management (Engineering) (JUPAS Code: JS3038)  
Higher Diploma in Building Technology and Management (Surveying) (JUPAS Code: JS3284)

### The most outstanding polyu student in 2010

#### Krystal, LEE Yeuk Ying

Graduate Quantity Surveyor, Mott Macdonald Hong Kong Limited  
BSc (Hons) in Surveying (Graduate in 2011)

### The outstanding student of faculty of construction and environment in 2012

#### Julia, CHEN Meng Pei

Building Engineer (Graduate), Leighton Contractors (Asia) Limited  
BSc (Hons) in Building Engineering and Management (Graduate in 2013)

### The outstanding student of faculty of construction and environment in 2013

#### Yuki, LI Tsz Wing

Project Assistant, Sun Hung Kai Real Estate Agency Limited  
BSc (Hons) in Surveying (Graduate in 2014)



#### Dr. the Hon. LEUNG Chun Ying (梁振英博士)

Higher Diploma in Surveying, 1974  
Chief Executive, HKSAR  
Outstanding PolyU Alumni Award – 1997 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Ir Prof. NG Sai Ho (吳世豪教授、工程師)

Diploma in Building, 1962  
Senior Advisor to the President, PolyU  
Outstanding PolyU Alumni Award – 1997 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Dr. Alex CHEUNG Kwok Wai (張國維博士)

Associateship in Building Technology & Management, 1982  
Outstanding PolyU Alumni Award – 1999 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Mr. David C. LEE (李頌熹先生)

Higher Diploma in Surveying / Building Technology, 1970  
Chairman & CEO, DS Capital Group Co. Ltd.  
Outstanding PolyU Alumni Award – 1999 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Prof. Kenneth PANG Tsan Wing, SBS (彭贊榮教授)

Higher Diploma in Surveying / Building Technology, 1967  
Former Commissioner of Rating and Valuation, Rating and Valuation Department, HKSAR  
Outstanding PolyU Alumni Award – 2001 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Prof. LIU Sing Cheong, JP (廖勝昌教授)

Higher Diploma in Surveying (General Practice), 1977  
Advanced Higher Diploma in General Practice Surveying, 1979  
Chairman, My Top Home (China) Holdings Ltd. & Evergreen Real Estate Consultants Ltd.  
Outstanding PolyU Alumni Award – 2003 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Ir LO Yiu Ching (盧耀楨工程師)

Higher Diploma in Structural Engineering, 1966  
Former Senior Consultant (Capital Planning), Hospital Authority Building, HKSAR  
Outstanding PolyU Alumni Award – 2005 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Mr. Marco WU Moon Hoi, GBS (鄺滿海先生)

Higher Diploma in Surveying / Building Technology, 1967  
Chairman, Hong Kong Housing Society  
Outstanding PolyU Alumni Award – 2007 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



MORE



#### Mr. Thomas HO On Sing, JP (何安誠先生)

Higher Diploma in Building Technology and Management, 1978  
Chief Executive, Gammon Construction Ltd.  
Outstanding PolyU Alumni Award – 2009 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Dr. NG Wing Hong (伍永康博士)

Diploma in Building, 1940  
Hon. Doctor of Engineering, PolyU  
Fellow, PolyU  
Outstanding PolyU Alumni Award – 2009 Awardee  
Outstanding BRE Alumni Award – 2010 Awardee



#### Prof. Thomas HO Hang Kwong (何恆光教授)

Higher Diploma in Surveying / Building Technology, 1971  
Former Property Director, MTR Corporation Ltd.  
Outstanding BRE Alumni Award – 2010 Awardee  
Outstanding PolyU Alumni Award – 2011 Awardee



#### Ir TSUI Tack Kong (崔德剛工程師)

Diploma in Building, 1959  
Director, T. K. Tsui & Associates Ltd.  
Outstanding PolyU Alumni Award – 2011 Awardee  
Outstanding BRE Alumni Award – 2012 Awardee



#### Ir Prof. Johnny FAN Siu Kay (樊紹基教授、工程師)

Higher Diploma in Structural Engineering, 1972  
Director, WMKY Ltd.  
Council and Court Member, PolyU  
Outstanding BRE Alumni Award – 2012 Awardee  
Outstanding PolyU Alumni Award – 2013 Awardee



#### Ir Prof. Peter MOK Kwok Woo (莫國和教授、工程師)

Higher Diploma in Structural Engineering, 1968  
Chairman, Hong Kong Quality Assurance Agency  
Outstanding BRE Alumni Award – 2012 Awardee



#### Prof. CHAN Ka Kui, BBS, JP (陳家駒教授)

Higher Diploma in Surveying / Building Technology, 1971  
Chairman of Mustard Seed Foundation  
Outstanding BRE Alumni Award – 2014 Awardee

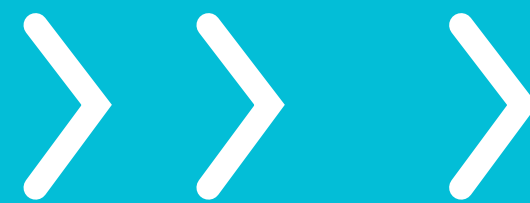


#### Mr. LAU Ping Cheung, SBS (劉炳章先生)

Higher Diploma in Quantity Surveying, 1974  
Director (Project Development) of SOCAM Asset Management (HK) Limited  
Outstanding BRE Alumni Award – 2014 Awardee



# RESEARCH STRENGTHS



## Research Centre for Construction and Real Estate Economics (RCCREE)

RCCREE aims to analyse, evaluate and recommend improvement to the economic performance of the construction industry and real estate markets in Hong Kong and Mainland China. Its analytical focus is placed on the evaluation of the rule regimes and institutional arrangements that apply to these economic areas and that contribute to economic efficiency and social welfare.



- Research Focuses include :
- Land and Construction Economics
  - Construction Safety
  - Real Estate Economics
  - Housing

**MORE**



## Research Centre for Construction Innovation (RCCI)

RCCI aims to act as a focal point for addressing the construction industry's research and consultancy needs in construction innovation in order to bring about a step change in the industry practice.



- Research Focuses include :
- Construction I.T.
  - Project Management in Construction
  - Value Management in Construction
  - Construction Contracting and Regulatory Innovations
  - Construction and Real Estate Law and Policy

**MORE**



## Ng Wing Hong Laboratory for Sustainable City

This Laboratory aims to create a high-level laboratory providing information technology infrastructure for examining the sustainable development of Hong Kong at the building and city level. The Laboratory facilitates the archival, processing and retrieval of databases and information in multimedia formats. It operates at the highest international standards and is recognised as an international leader in the fields, which enables it to take advantage of the new technologies that support its contribution to knowledge. It seeks to partner with others within the university and in the external environment (including industry and other universities) to address the complex issues faced in the built environment.



## Recent Achievements in Research

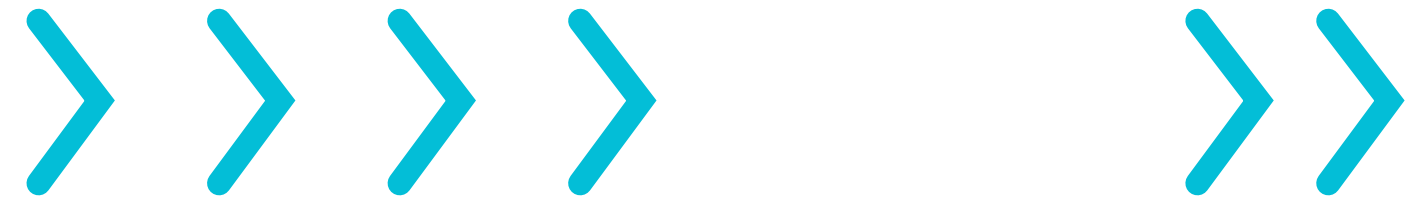
- Securing a number of external competitive research grants (GRF, ITF, PPR and CIC) for 10 projects with a combined amount of research funding of over HK\$9 million from July 2013 to June 2014
- Securing HK\$4.3 million for 7 projects through various RGC Schemes for 2012/13
- Scoring 3 awardees (out of over 200 awardees) in HK PhD Fellowship 2014/15 Scheme
- PolyU earning No. 1 ranking in terms of publications and citations from 2003 to 2008 in the field of Construction and Building Technology (Thomson Reuters)
- Extensive variety of application-oriented research and consultancy projects (examples) :
  - Developing a Personal Cooling System (PCS) for Combating Heat Stress in the Construction Industry;
  - Improving Safety Communication of Ethnic Minorities in the Construction Industry;
  - Proactively Monitoring Construction Progress by Integrating 3D Laser-scanning and BIM;
  - Property Market Sentiment and the Return of Residential Properties; &
  - RFID-Enabled Building Information Modeling (BIM) Platform for Prefabrication Housing Production in Hong Kong.

**MORE**





# PARTNERSHIP WITH INDUSTRY



## Consultancy Services

Our international multi-disciplinary academics are actively participating in research and consultancy work for government bodies, professional institutions and industry on an extensive variety of topics :

### Topics

- Building Engineering
- Building Information Modeling
- Construction Economics
- Construction Health and Safety
- Construction Law
- Construction Management
- Construction Technology
- Environmental Science
- Housing Management
- Knowledge Management
- Land Development
- Project Finance and Public Private Partnerships
- Project Management
- Real Estate
- Real Estate Finance and Investment
- Property Marketing
- Urban and Regional Planning
- Value Management

### Clients (Examples)

- Deloitte Consulting (HK) Ltd.
- Gammon Construction Ltd.
- Hong Kong Housing Authority
- MTR Corporation Ltd.
- New World Development Co. Ltd.
- The Hong Kong Institute of Surveyors

## BRE Distinguished Lectures / Dialogue with BRE Alumni

We keep a very close link with the industry and our alumni through a number of professional CPD seminars including 'BRE Distinguished Lectures' and 'Dialogue with BRE Alumni' for our students, alumni and industrial practitioners. Many outstanding professionals and alumni are on our honourable speaker list, and we enjoy the full support of the professional institutions, such as CIOB (HK), HKIPM, HKIS, HKIVM and RICS.



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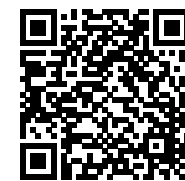


## Work Integrated Education (WIE)

Work-Integrated Education (WIE) is work-based learning experience, undertaken by our Full-time undergraduate students, which takes place in an organizational context relevant to their future profession, or relevant to the development of generic skills that will be valuable in that profession. Since the launch in 2006, BRE has been working in partnership with 65 supporting companies and institutions from both the private and public sectors. So far, a large number of BRE students have benefited from this partnership in a wide spectrum of professions including building surveying, quantity surveying, general practice, construction and property management.



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## Mentorship Scheme

The BRE Mentorship Scheme has gone through 15 very successful years reaching its 15th Anniversary Crystal Milestone in 2014. Our BRE Mentorship Scheme aims to enable our students to have early exposure to the industry and career guidance by individual mentoring. Through a friendly and close mentoring relationship, our students can learn a lot from their mentors, especially through mentors' expertise. Under this Scheme, students have good opportunities, geared well to the needs of professional communities. Besides, this Scheme helps nurture new blood for the development of future professionals in the industry and offers an ideal platform for employers to explore the calibre of graduates they need in future.



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# >> CONTACTS



 <http://weibo.com/>  
香港理工大学建筑及房地产学系



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Room ZS-725, 7/F, South Tower, Block Z, Phase 8  
The Hong Kong Polytechnic University  
Hung Hom, Kowloon, Hong Kong



<http://www.bre.polyu.edu.hk>  
Enquiries: 2766 5807 and 2766 7770  
August 2014