

# Structural Division ANNUAL REPORT 2017/2018



# CONTENT

<b>Committee Members</b>	<b>1</b>
<b>Chairman's Report</b>	<b>2-4</b>
<b>Discipline Matters</b>	<b>5-6</b>
<b>Event Highlights</b>	
▶ Technical Meetings	<b>7-10</b>
▶ Technical Visits	
▶ Structural Engineering Competition for Youth – Paper Frame Structure Challenge 2017	<b>11</b>
▶ Annual Seminar 2018	<b>12</b>
▶ Annual Dinner 2017	<b>13</b>
<b>Structural Excellence Award 2018</b>	<b>14-26</b>
<b>Awards</b>	<b>27</b>
▶ Best Reporters Award 2018	
▶ Best Student Award 2017	
<b>List of Structural Division Chairmen</b>	<b>28</b>

## Committee Members 2017-2018

**Ir Edward CHAN Sai-cheong**  
*Chairman*  
AECOM Asia Company Limited

**Ir LEUNG Kwok-tung, JP**  
*Immediate Past Chairman*

**Ir TSE Kam-leung**  
*Deputy Chairman*  
Architectural Services Department

**Ir CHAN Chi-kong**  
*Hon Secretary*  
Arcadis Design & Engineering Ltd.

**Ir Jenny LAU Ching-ling**  
*Hon Treasurer*  
Architectural Services Department

**Ir LAM King-kong**  
*Committee Member*  
Housing Department

**Ir Paul LEE Kai-hung**  
*Committee Member*  
Hsin Chong Construction Company Limited

**Ir Ben TSE Wai-keung**  
*Committee Member*  
BEN TSE & Associates Limited

**Ir Jacky CHIONG Kam-yueng**  
*Committee Member*  
Buildings Department

**Ir Prof Ben YOUNG**  
*Committee Member*  
The University of Hong Kong

**Ir Prof KUANG Jun-shang**  
*Committee Member*  
Hong Kong University of Science and Technology

**Ir Prof LO Sai-huen**  
*Committee Member*  
The University of Hong Kong

**Ir Thomas WONG Kam-chuen**  
*Committee Member*  
YSK2 Engineering Company Limited

**Ir Dr Simon WONG Ho-fai**  
*Committee Member*  
Technological and Higher Education  
Institute of Hong Kong

**Ir Albert LEUNG Wing-keung**  
*Committee Member*  
Jacobs China Limited

**Ir Paul TSANG Sau-chung**  
*Committee Member*  
Ove Arup & Partners H.K. Limited

**Ir Kenneth CHAN Wai-ye**  
*Committee Member*  
Highways Department

**Mr Simon PANG Hin-lam**  
*Ex-officio Member*  
(AMC Representative)  
AECOM Asia Company Limited

**Mr Johnny SHING Wai-lam**  
*Ex-officio Member*  
(SSC Representative)  
The Hong Kong and China Gas Company Limited

**Mr Raymond Mak Ka-yeung**  
*Ex-officio Member*  
(YMC Representative)  
Wings & Associates Consulting Engineers Limited

**Ir Martin TSOI Wai-tong**  
*Ex-officio Member*  
(Council Member (Division))  
Housing Department

**Ir Prof CHAN Siu-lai**  
*Ex-officio Member*  
(Discipline Representative)  
The Hong Kong Polytechnic University

**Ir Kevin TANG**  
*Co-opted Member*  
Greg Wong & Associates Limited

**Ir Albert A Ray TAM**  
*Co-opted Member*  
Buildings Department

**Ir Dr Paul LAM Heung-fai**  
*Co-opted Member*  
City University of Hong Kong

**Ir Ken NG Kin-shing**  
*Professional Assessment Committee(PAC)  
Representative*  
Buildings Department

**Ir LAU Chi-kin**  
*Observer*  
Sun Hung Kai Properties Limited

**Ir Hammus CHUI Wai-ming**  
*Observer*  
Housing Department

**Ir LIN Siu-man**  
*Observer*  
West Kowloon Cultural District Authority

**Ir Simon WONG kin-kwok**  
*Observer*  
Architectural Services Department

# Chairman's Report



It is indeed my greatest honour to be the 39th Chairman of the HKIE Structural Division for Session 2017/2018. Since becoming the Chairman, I have been most excited about the work of the Structural Division. Thanks to the collective efforts of the Committee Members, the Division has achieved another fruitful year, and I would like to briefly report at below.

## Membership

As of April 2018, the Structural Division has a membership of 6,261 of which 295 are Fellow Member and 4,435 are Corporate Member.

## Committee Major Activities

With the concerted effort of the Committee Members, the Structural Division has organized some 30 activities in this session, including:

- Technical meetings, seminars and site visits covering a wide range of topics
- Annual Dinner
- Structural Excellence Award
- Annual Seminar
- Annual Visit

## Major Events

Annual Dinner 2017 was successfully held on 20 October 2017 at J W Marriot Hong Kong, with a full house of over 450 members and guests. The Guest of Honour of the event, Ir. Chan Fan, Frank JP, Secretary for Transport and Housing of the HKSAR Government, shared his valuable insight on the transportation development in Hong Kong.

The Structural Excellence Award 2018 was conducted in March 2018. Entries of the Award are grouped into two separate groups: Project Award and Research & Development Award. This year we were pleased to have received eight project submissions and four research paper submissions. The judging panel consisted of two renowned professors from overseas, one professor from University in Hong Kong, directorate representatives from Buildings Department, Housing Department and Highways Department of the HKSAR Government, a renowned practicing professional as well as the Chairman and the Immediate Past Chairman of the HKIE Structural Division. The Judging Panel assessed each submission based on the submitted documents and the presentations by the participants. The award winners will be announced by the Chairman of the Judging Panel, Ir Edward CHAN Sai Cheong, at the Division Annual General Meeting on 2 May 2018.

# Chairman's Report

The Annual Visit 2018 to Chengdu was held from 12 to 15 April 2018. We visited the Department of Civil Engineering of Southwest Jiatong University, Chengdu ICC project development site, and two project construction sites of China Vanke. During the visit to Southwest Jiatong University Ir Professor Chan Siu Lai and Dr. Y P Liu gave a brief presentation on the advancement in the design of steel structures. Ir Professor Chan Siu Lai also received then the appointment of Honorary Visiting Professor of the University. The visit to Chengdu ICC and the construction sites of China Vanke enlightened us on the latest development of super highrise buildings, large complex retail malls, housing development, the trend of adopting the use of precast construction as well as the use of systemized exterior self-climbing scaffolding.

The Annual Seminar 2018 was held on 8 March 2018 with the theme "Urban Revitalization Moving Ahead: Strengthening and Retrofitting of Structures". We were most delighted to have Dr CHEUNG Tin-cheung, JP, Director of Buildings of the HKSAR Government as our Guest of Honour who also delivered an opening address at this major annual event. Distinguished overseas and local speakers from academia to prominent practicing professionals shared their insights, experience and innovative ideas in both research and application on strengthening and retrofitting of existing structures with inspiring examples in the revitalization of buildings.

## Inspire the Young

The Division has always placed "Inspiring the Young" an important mission and responsibility of the engineering community. For the past three years, we have had great successes with the "Structural Engineering Competition for the Youth – Paper Challenge". The third annual event was held on 8 July 2017 in the Hong Kong University of Science and Technology. There were 30 teams from secondary schools with over 120 Form 3 to Form 6 students participated in the competition.

Career talks have also been conducted at local universities to introduce our profession to undergraduate students, and seminar held to share with the engineering graduates and young members on the path leading to a professional qualification, training focus, preparation for professional assessment and continuous professional development through a practical approach.

## Continuous Professional Development

In addition to the published handbooks (ie : Wind Loading Handbook, Concrete Code Handbook, Handbook to Code of Practice for Demolition of Building, Precast Concrete Construction Handbook, Handbook to the Code of Practice for Foundations), the working committee has completed the making of the Handbook for the Code of Practice for Structural Use of Steel which will be issued very soon. Currently the committee is working on the Revision to the Handbook on Code of Practice for Foundations and will commence on the Handbook on Code of Practice for Structural Use of Glass. We hope our members will find these handbooks helpful for their daily works as well as their professional development.

We have organized over 20 technical meetings, seminars and site visits to help support members on continuous professional development. In addition to those organized by our own, we also collaborated with external institutions and bodies in conducting seminars, workshops, conferences and technical visits for professional development. Through these activities we continue to build stronger links with external parties for promoting our profession.



## Serving the Community

We have active participation in serving the community. Members are nominated to various Government committees and panels with an aim to render our professional advice to the Government in different aspects and at various stages of policy formulation, including the BSC / APSEC Discussion Forum of the Buildings Department, various standing technical committees on the drafting / review of local codes of practice of the Buildings Department etc. Moreover, Committee Members play an important role as experts in the accreditation of university programmes, training schemes and the assessment of application for registration as Registered Professional Engineer under the Engineers Registration Board.

The written examination of the HKIE Structural Examination was held on 5 December 2017 with over 450 candidates. To help candidates prepare for the examination, a seminar was held on 4 November 2017. The next professional interview will be held in June and July 2018. Candidates have to pass the Structural Examination before admission to Corporate Membership under the Structural Discipline of HKIE.

## About Joint Structural Division

With reference to the meeting of the HKIE Structural Division and the representatives of IStructE on 8 November 2017 and further to a special meeting of the committee of the HKIE Structural Division on 10 November 2017, the HKIE Structural Division regrettably confirms IStructE's notification to dissolve the Joint Structural Division (JSD), an operating unit of the HKIE Structural Division and IStructE Hong Kong Regional Group, effective from 2018. This matter has been then discussed in the meeting of the HKIE's Learned Society Board (LSB), and the LSB agreed to the termination of the memorandum of agreement signed between the HKIE and IStructE and the dissolution of the JSD. Subsequently, the HKIE Council approved the LSB's recommendations. As such, the JSD has already ceased to operate since 1 January 2018. All activities thereafter are the HKIE activities and not JSD activities. A notice has been posted in HKIE Structural Division webpage past few months.

## Appreciation

The Structural Division has now put in place various activities for parties ranging from practicing engineers, graduated engineers, university students to secondary school students. These are thanks to the collective efforts from past Chairpersons and Committee Members and, of course, to members' participation. I would like to take this opportunity to thank all Committee Members of this session for their invaluable supports to the Division in achieving another fruitful year.

The Structural Division will continue to promote the advancement of structural engineering and to facilitate exchange of professional knowledge for members. I look forward to your active participations and continued supports to the Division.

**Ir Edward CHAN Sai Cheong**  
Chairman of the HKIE Structural Division  
Session 2017/2018

## The HKIE Structural Examination

The HKIE Structural Examination consists of TWO parts: (a) written examination and (b) professional interview. Applicants passing both parts and meeting the experience requirements under the relevant routes to membership will be eligible to become Corporate Member of the HKIE in the Structural Discipline (subject to meeting other requirements in the HKIE Constitution). Passing the written examination is not a pre-requisite for taking the interview or vice versa.

The written examination of the HKIE Structural Examination 2017 was held on 5 December 2017 at the Kowloonbay International Trade & Exhibition Centre. It consisted of two sections in the form of multiple choice questions (one hour) and design questions (six hours). 464 candidates attended the written examination and 84 passed with a passing rate at 18.1%. Examination results were announced in April 2018 and the professional interview will be held in June/July 2018.

### Chairman of Examination Board:

- Ir WONG Chi Ming

### Chief Examiners of Design Questions:

- Ir CHAN Sai Cheong Edward
- Ir LAI Siu Lun Benny
- Ir Dr LAU Chi Wang James
- Ir Prof LAU Ching Kwong
- Ir Prof LAW Kwok Sang
- Ir TANG Kevin
- Ir TSANG Sau Chung Paul

### Chief Examiners of M.C. Questions:

- Ir KWAN Kin Kei
- Ir Dr LAM Siu Shu Eddie
- Ir NG Kin Shing Ken
- Ir Dr SU Kai Leung

Lastly, I would like to express my heartfelt thanks to the Examination Board Chairman, Chief Examiners, Examination Markers and Interviewers and, in particular, the SD Committee, for the dedicated efforts throughout.

**Ir Prof CHAN Siu Lai**  
Chairman of HKIE Structural Discipline  
Dated 20 April 2018



## Examination Markers

Ir CHAN Chi Kong	Ir KAN Tak Cheong Sonny	Ir LEUNG Pak Wai
Ir CHAN Chi Ming Maverick	Ir KANG Man	Ir LEUNG Siu Ming
Ir Prof CHAN Chu Fai Edmond	Ir KONG Shui Sun	Ir LEUNG Wai Bun
Ir CHAN Chung Ming	Ir Dr KOON Chi Ming	Ir LEUNG Wan Cheong
Ir CHAN Ho Wai Winifred	Ir KU Kwai Yau	Ir LEUNG Yu Wah
Ir CHAN Kar Lock Eric	Ir KUO Tung Ming	Ir LI Ting Fan
Ir CHAN Ngai Tung	Ir KWAN Kai Sing	Ir LIU Chi Kwun Albert
Ir CHAN Wah Chi Eddie	Ir KWAN Kin Kei	Ir LIU Kwok Chuen Henry
Ir CHAN Wai Ching	Ir KWAN Po Jen Helen	Ir LIU Sik Wing
Ir CHAN Wai Tong Tony	Ir KWOK Chi Tak Philip	Ir LIU Tai Chuen
Ir Dr CHENG Hon Tung	Ir KWONG Po Lam	Ir Dr LIU Yuk Shing
Ir CHENG Koon Yuk	Ir KWONG Shiu Kee Raymond	Ir LO Gon Fai Stephen
Ir CHENG Pui Wan	Ir KWONG Wing Kie	Ir LO Man Chiu Raymond
Ir CHEONG Va Chan	Ir LAI Hou Shun Otto	Ir LOONG Chun Wah Bernard
Ir CHEUNG Ching Ting	Ir LAI Wai Wah	Ir LUK Man Kit
Ir CHEUNG Kwok Choi	Ir Dr LAI Yuk Fai Willy	Ir MAK Kin Mau
Ir CHEUNG Yiu Sun Wilson	Ir LAM Chun Yin Kevin	Ir MAK Kwok Shing
Ir Dr CHI Wuh Jian Joseph Duncan	Ir LAM King Kong	Ir MAK Ming Fai
Ir CHIK Wai Keung	Ir LAM Ming Fai	Ir MAK Tsz Yee
Ir CHIM Chin Yiu	Ir LAM Ping Keung William	Ir MO Kon Fei Kenneth
Ir CHIONG Kam Yueng Jacky	Ir LAM Tsz Fung	Ir MOK Chi Wah Martin
Ir CHIU Koon Man	Ir LAM Yeuk Hon John	Ir MOK Hing Wah James
Ir CHONG Hing Pong	Ir Dr LAU Chi Keung	Ir MOK Kin Yau Daniel
Ir CHOY Chun Chuen	Ir LAU Chi Keung	Ir NG Hon Keung
Ir Prof CHOY Siu Chung Adam	Ir LAU Chi Ming Albert	Ir NG Kin Shing
Ir Dr CHU Chi Keung Paul	Ir Dr LAU Chi Wang James	Ir NG Pak Cheong
Ir CHU Wui Cheung	Ir LAU Chi Yau William	Ir NG Tim Yeung
Ir CHUNG Kam Yin Robinson	Ir LAU Wai Ming	Ir NGAI Wai Bun
Ir CHUNG Kwong Nung	Ir Dr LAU Wing Hung Otto	Ir PO Lap Fun
Ir CHUNG Lung To	Ir LAU Wing Yin	Ir POON Kwok Hin
Ir FAN Siu Kay	Ir LAW Yu Cheong	Ir SETO Cheuk Ming
Ir FOK Wing Huen	Ir LEE Kin Sun Walter	Ir SHAM Sai Wah
Ir FONG Suk Wai	Ir LEE Kwok Keung Lucas	Ir SIU Koon Hoi Carmine
Ir FUNG Ho Wing	Ir LEE Ping Kuen	Ir SO Kai Wing Claudius
Ir FUNG Hoi Fai	Ir LEE Shih Ming	Ir SO Kit Keung
Ir FUNG King Cheong	Ir LEE Shiu Ming	Ir SO Wah Wai
Ir HO Hon Kit Humphrey	Ir LEE Wing Hong	Ir SO Yan Wing
Ir HO Ka Kit Kenith	Ir LEE Yat Sing Edwin	Ir SONG Ngan
Ir HO Koon Ho	Ir Dr LEE Yuk Nin Andy	Ir Dr SU Kai Leung
Ir Dr HO Wai Ming Goman	Ir LEE Yung Ling Christopher	Ir SZE Wang Cho
Ir HOU Ting Fun Stephen	Ir LEI Veng Kei	Ir TAI Chi Ho
Ir HOWE Wing Chi David	Ir LEUNG Chi Hung Ben	Ir TAI Chi Sing
Ir David HUNG	Ir LEUNG Chi Suen Francis	Ir TAM Hon Wing
Ir IEONG Kwok Lun	Ir LEUNG Chi Wing	Ir TAM Yun Lam Benson
Ir IP Kwong Fat Nandi	Ir LEUNG Hung Kwong Derrick	Ir TANG Chi Ho Calvin
Ir IP Wai Leung	Ir LEUNG Kin Fung Stephen	Ir TANG Chung Ming William
Ir KAN Shiu Kay Eric	Ir LEUNG Kin Kwong	Ir TANG Wai Ming Raymond

## HKIE, Structural Division Technical Meetings & Visits 2017 – 2018

Date	Details	Speaker
27 July 2017 (Thursday)	Technical meeting on <b>“Polygonal Tubular Members”</b>	by Dr TM CHAN of HKPolyU
19 September 2017 (Tuesday)	Technical meeting on <b>“Shenyang New World Centre – Shenyang New World Expo”</b>	by Ir WL LEUNG of AECOM
27 September 2017 (Wednesday)	Technical meeting on <b>“Designing ductile RC columns : Axial force effect”</b>	by Ir Prof JS KUANG of HKUST
20 October 2017 (Friday)	Annual Dinner 2017	
24 October 2017 (Tuesday)	Technical Meeting on <b>“Analysis and Design of Semi-rigid Frames – Theory and Practice”</b>	by Ir Prof S.L. CHAN of HKPolyU



# Event Highlights

## HKIE, Structural Division Technical Meetings & Visits 2017 – 2018

**Date** **Details** **Speaker**

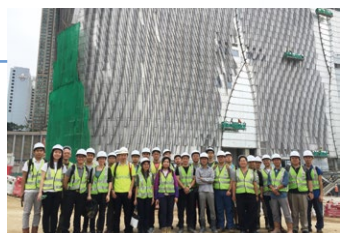
**4 November 2017**  
(Saturday) Preparatory Seminar for the HKIE Structural Examination (Written Examination) **by Chief Examiners of the Written Examination**

**6 November 2017**  
(Monday) Technical Meeting on “Going for Gold in a Changing World” **by Mr Ian FIRTH of ISTRUCTE**

**14 November 2017**  
(Tuesday) Technical Meeting on “Stainless Steel Bolted Connections at Elevated Temperatures” **by Dr Yancheng CAI of HKU**

**18 November 2017**  
(Saturday) Technical Visit to Xiqu Centre (戲曲中心) at West Kowloon Cultural District

**29 November 2017**  
(Wednesday) Technical Meeting on “Design for Shear: EC2 vs HKConcrete2013” **by Ir Prof JS KUANG of HKUST**



## HKIE, Structural Division Technical Meetings & Visits 2017 – 2018

**Date** **Details** **Speaker**

**12 December 2017**  
(Tuesday) Technical Meeting on “Design, Disasters and Development” **by Ms Jo da Silva of ARUP**

**19 December 2017**  
(Tuesday) Technical Meeting on “New Code of Practice for Foundations” **by Ir CS HO of Buildings Department**

**2 January 2018**  
(Tuesday) Technical Meeting on “Use of Recycled Glass in Concrete Footpath” **by Dr Johnny CM HO of University of Queensland, Australia**

**11 January 2018**  
(Thursday) Technical meeting on “Mandatory Building Inspection Scheme (MBIS) & Mandatory Window Inspection Scheme (MWIS)” **by Ir Eric CHAN of Buildings Department**

**23 January 2018**  
(Tuesday) Technical meeting on “Analysis and Design of Semi-rigid Joints for Steel Frames” **by Ir Prof Daniel SH LO of HKU**





# Event Highlights

## HKIE, Structural Division Technical Meetings & Visits 2017 – 2018

Date	Details	Speaker
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<b>27 February 2018</b> (Tuesday)	Technical Meeting on “Revitalization of Grade II Historic Chai Wan Factory Estate to Public Rental Building”	by Ir WB CHAN of Housing Department
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<b>8 March 2018</b> (Thursday)	Annual Seminar “Urban Revitalization Moving Ahead: Strengthening and Retrofitting of Structures”	by Various Speakers
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<b>12 April 2018</b> (Thursday)	Technical Meeting on “Raffles City, Hangzhou”	by Ir Andrew LUONG of ARUP
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<b>12 – 15 April 2018</b> (Thursday – Sunday)	Annual Visit – Chengdu, China	
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<b>21 April 2018</b> (Saturday)	Technical Visit to “Tin Shui Wai Town Lot No. 33 Property Development”	
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<b>2 May 2018</b> (Wednesday)	Annual General Meeting	
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# Event Highlights

## Structural Engineering Competition for Youth – Paper Frame Structure Challenge 2017

On 8 July 2017, “Structural Engineering Competition for the Youth – Paper Tower Challenge 2017” co-organized by the Joint Structural Division and the Academy for Bright Future Young Engineers of Hong Kong University of Science and Technology (HKUST) was held in HKUST. This is the third competition to inspire the youth to become elite engineers in the future by developing their analytical and communication skills and acquiring engineering knowledge through building and testing a paper tower structure. The competition was a great success with 120 participants from 16 secondary schools. Each team was then given 2.5 hours to build a tower structure of height 1.6 m using tapes and recycled papers. Each tower structure was subjected to an increasing horizontal force until collapse. Judging criteria included strength, lightness, aesthetic and innovation.

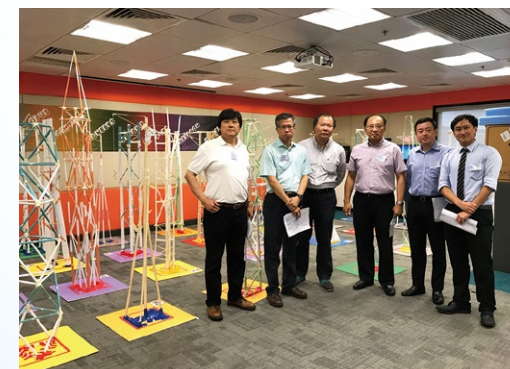
**Overall Prizes**  
**Champion**  
**First runner-up**  
**Second runner-up**

**Awardees**  
Diocesan Boys’ School  
Po Leung Kuk Choi Kai Yau School  
Po Leung Kuk Lee Shing Pik College



**Other commendations**  
**Strongest frame**  
**Lightest frame**  
**Most aesthetic and innovative frame**

**Awardees**  
Po Leung Kuk Ma Kam Ming College  
Immaculate Heart of Mary College  
Po Leung Kuk Ma Kam Ming College





## Annual Seminar 2018 on "Urban Revitalization Moving Ahead: Strengthening and Retrofitting of Structure"

The Annual Seminar 2018 was successfully held on 8 March 2018 at the Jockey Club Auditorium of the Hong Kong Polytechnic University. The Seminar with the theme "Urban Revitalization Moving Ahead: Strengthening and Retrofitting of Structure", was overwhelmingly received with over 300 participants.

Ir Edward CHAN Sai-cheong, Chairman of the Structural Division of the Hong Kong Institution of Engineers (2017/2018), started the Annual Seminar with the Welcoming Speech. Opening Address was delivered by Guest of Honor Dr CHEUNG Tin-cheung, JP, Director of Buildings of Buildings Department of the HKSAR Government. Prominent local and overseas speakers shared their experiences, insights and innovative ideas in strengthening and retrofitting structures, in both research and application of the technology.

Distinguished speakers included (in order of presentation): Ir LING Wai-kit, Ir Prof Sritawat KITIPORNCHAI, Ir Prof Christopher LEUNG Kin-ying, Prof HAN Lin-hai, Ir CHAN Wood-biu, Ir Dr Goman HO Wai-ming, Ir Dr Je-ffery LAM, Ir Dr Ray SU Kai-leung.

Q&A sessions open to the floor were hosted by Ir Dr Paul LAM Heung-fai and Ir TSE Kam-leung. The event was successfully concluded following the closing remarks by Ir Prof CHAN Siu-lai, Chairman of the Discipline Advisory Panel of the Hong Kong Institution of Engineers (2017/2018).

### Organizing Committee of Annual Seminar 2018

#### Chairman

- Ir TSE Kam-leung

#### Members

- Ir Kenneth CHAN Wai-ye
- Ir Jacky CHIONG Kam-yeung
- Ir Dr Paul LAM Heung-fai
- Ir Jenny LAU Ching-ling
- Ir Prof Daniel LO Sai-huen
- Ir Kevin TANG
- Ir Ben TSE Wai-keung



## Annual Dinner 2017

The Annual Dinner 2017 was successfully held on 20 October 2017 at the JW Marriott Hotel Hong Kong drawing attendance of over 500 members and guests. The Annual Dinner 2017 is privileged to have Ir CHAN Fan, Frank, JP, Secretary for Transport and Housing of the HKSAR government as the Guest of Honour.

Other distinguished guests included Dr CHEUNG Tin-cheung, JP, Director of Buildings of Buildings Department, Ms. Ada FUNG, Deputy Director of (Development & Construction) Housing Department, Mr PUN Wai-keung, JP, Head of Geotechnical Engineering Office of Civil Engineering Development Department, Mrs Sylvia LAM, JP, Deputy Director of Architectural Services, Architectural Services Department, Ir Dr Hon LO Wai-kiwok, SBS, MH, JP, Legislative Councilor (FC), Mr. FU Chuen Fu, Mark Political Assistant to Secretary for Transport & Housing Bureau, and Ir Ringo YU Shek-man, Vice President of HKIE.

### Annual Dinner Organizing Committee 2017

#### Chairman

- Ir Prof Ben YOUNG

#### Members

- Ir Edward CHAN Sai-cheong
- Ir TSE Kam-leung
- Ir CHAN Chi-kong
- Ir Jenny LAU Ching-ling
- Ir Ben TSE Wai-keung
- Ir Albert LEUNG Wing-keung
- Ir Prof CHAN Siu-lai
- Ir Kevin TANG
- Ir LAU Chi-kin





# Structural Excellence Award 2018

The Structural Excellence Award comes to the 20th event since 1998. It aims to promote excellence in structural engineering demonstrated through the design and construction of buildings and structures completed in the last two years.

There are three categories of entries, namely Hong Kong Projects, Mainland (including Macau & Taiwan) / Overseas Projects & Research and Development (R&D). On 8 February 2018, the Judging Panel short-listed 12 finalists of Project Awards and R&D Award. Following finalist presentations on 3 March 2018. Project Awards were decided with emphasis on Engineering Approach, Integration, Innovation / Unusual Features, Buildability, Energy Efficiency / Environmental Consideration / Sustainability and Aesthetics. R&D Awards were selected on the importance to Engineering Application, Theoretical Background, Innovation / Originality and Sustainability.

1 local project and 1 overseas project were awarded as Grand Awards and 1 research paper won the Grand Award. Below is the winner list.

## Grand Award

### Hong Kong Project

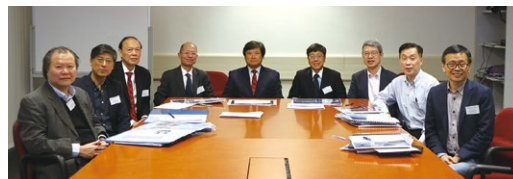
**Footbridge B of Shatin Area 52 Phase 2**  
(Category: Infrastructures & Footbridges)

### Mainland / Overseas Project

**Energy Mansion, Shenzhen, China**  
(Category: Mainland / Overseas Project)

### R&D Award

**Interaction of plastic hinges in prestressed concrete bridges with corrugated steel webs**



## Members of the Judging Panel

### Chairman

- Ir Edward CHAN Sai-cheong

### Members

- Ir Prof CHAN Siu-lai
- Prof CHEN Yiyi
- Ir LEUNG Kwok-tung, JP
- Ir Albert LIU Ho-hoi
- Ir Ken NG Kin-shing
- Ir Martin TSOI Wai-tong
- Prof WANG Chien-ming
- Ir Dr Greg WONG Chak-yan, BBS, JP

## Organizing Committee

### Chairman

- Ir TSE Kam-leung

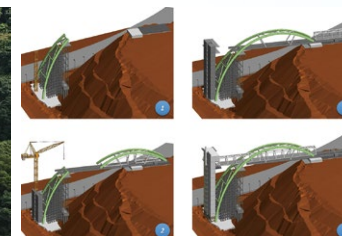
### Members

- Ir Kenneth CHAN Wai-ye
- Ir Jacky CHIONG Kam-yueng
- Ir Dr. Paul LAM Heung-fai
- Ir Jenny LAU Ching-ling
- Ir Prof Daniel LO Sai-huen
- Ir Kevin TANG
- Ir Ben TSE Wai-keung

## GRAND AWARD

## Footbridge B of Shatin Area 52 Phase 2

**Winner: Structural Engineering Section 1 of Housing Department & Jacobs China Limited**  
**Hong Kong Project - Infrastructures & Footbridges**



**Structural Engineer:** Structural Engineering Section 1 of Housing Department and Jacobs China Limited

**Architect:** Architectural Section 1 of Housing Department and Hsin Yieh Architects and Associates Ltd

**Main Contractor:** China State Construction Engineering (HK) Limited

**Others:** Erection Subcontractor: VSL Hong Kong Ltd.

## Project Description

- Footbridge B forms the most prominent node of pedestrian links for Shui Chuen O Estate, providing a safe and convenient pedestrian link between the new estate sitting on hillside at +63.5mPD and the lower landing of Shui Chuen Au Street at +22.5mPD and eventually to Sha Tin Wai Railway Station.
- The Shui Chuen O Estate development comprises 18 domestic blocks, commercial complex, welfare and community facilities with associated transport and pedestrian links.
- Its merit is communicating the significant level difference and spanning about 80m across the steep slopes and the existing stream course adjacent to Shui Chuen Au Street.

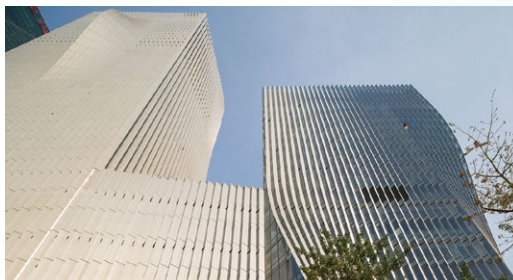
## Project Features

- Enhanced connectivity and accessibility of the Shui Cheun O Estate;
- A distinctive structural form, a 78m long viereendeel steel truss supported on twin steel arches, visually blending into the alpine environment;
- Structural engineering design and construction excellence with two-staged erection analysis, well-coordinated geometry control, structural robustness, bridge articulation, serviceability, maintenance provisions and sustainability features (green roof, skylight etc);
- Innovative launching method to address the difficult terrain with minimal impact to existing slopes and stream course. Building Information Modelling (BIM) adopted for effective coordination throughout the fabrication, trial assembly, pre-cambering, launching and jointing to ensure the achievement of design intention.

## GRAND AWARD

## Energy Mansion, Shenzhen, China

Winner: Arup  
Mainland / Overseas Project



**Client:** Shenzhen Energy Group Co., Ltd.  
**Structural Engineer:** Arup  
**Architect:** Bjarke Ingels Group A/S  
**Main Contractor:** China Construction Second Engineering Bureau Ltd.

### Project Description

- Shenzhen Energy Mansion is an office development comprising two towers, 220m and 110m tall, with forms that are sympathetic to the elongated site and plot layout.
- Designed by the world renowned architect Bjarke Ingels Group (BIG), the project features a unique folded façade that both passively and actively reduces the energy consumption of the building.

### Project Features

- Elegant efficient structural system to the towers – responding to the land limitation in east to west direction, with core wall slenderness with ratio 17 (much greater than the recommended value of 12).
- The long and narrow site was a physical constraint on the tower shape and plans. The structural solution delivers an efficient layout. Despite the complicated form, the building is economically structured in reinforced concrete (with composite columns).
- The structure column layout was carefully set to follow the envelop “moves” and integrate with the “separations” to provide maximum floor efficiency and sight view from indoor.
- In the link bridge structure, rigid connection was adopted for simplicity in façade detailing, construction, and future maintenance. This rigid link poses additional challenge to seismic design (twin tower effect).
- The 34 m-span link bridge from L2 to L9 is structured to provide maximum open spaces and flexibility through clever limited use of trusses and hanging columns.

## GRAND AWARD

## Interaction of plastic hinges in prestressed concrete bridges with corrugated steel webs

R&D Award

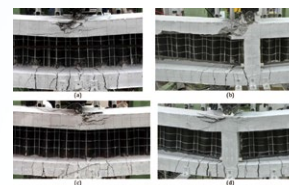


Fig. 9 Plastic hinge zones: (a) Specimens B-1, (b) Specimens B-2, (c) Specimens B-3, and (d) Specimens B-4

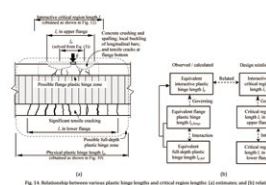


Fig. 14 Relationship between critical plastic hinge lengths and critical region lengths: (a) relationship and (b) relationship

**Author(s):** Xia-chun CHEN, Yu ZENG, Francis Tat Kwong AU and Rui-juan JIANG  
**Publication Date of Paper:** 1 November 2017  
**Published Journal(s):** Engineering Structures



### Aims of the research / Paper abstract

Prestressed concrete bridges with corrugated steel webs have emerged as one of the promising bridge forms. However, the presence of prestressing tendons and shear-deformable corrugated steel webs with negligible axial stiffness complicates the formation of plastic hinges under applied loading to failure. The full-range structural behaviour of these bridges and plastic hinge formation are therefore studied experimentally and numerically. The more localised flange plastic hinge caused by both web shear deformation and local flange bending interacts with the full-depth plastic hinge of such a bridge. Tests show that the full-range structural behaviour of the bridge is mainly governed by the localised flange plastic hinges. A formula is proposed to predict the equivalent interactive plastic hinge length, which helps to predict the full-range structural behaviour taking into account the presence of external prestressing tendons. Some design recommendations are also provided.

### A brief on unusual features

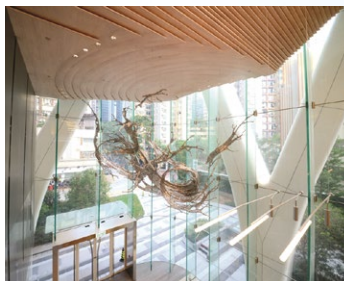
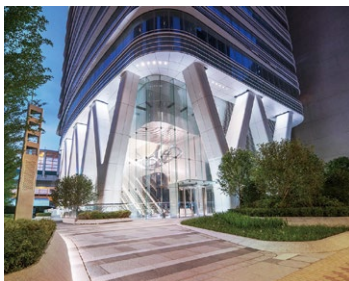
- This bridge type is useful in seismic regions because of its lightness.
- The bridge comprises concrete flanges, corrugated steel webs, diaphragms and prestressing tendons.
- The longitudinal flexibility of corrugated steel webs makes prestressing of the bridge very efficient.
- However, the flexibility of corrugated steel webs in shear and compression complicates the structural behaviour.
- The flange and full-depth plastic hinges may form and interact with each other.
- Tests show the plastic behaviour is governed by formation of flange plastic hinge.
- A formula is suggested to estimate the equivalent interactive plastic hinge length.
- A simplified method is proposed to predict the full-range behaviour.
- Some design recommendations are provided.



## COMMENDATION MERIT

### 18 King Wah Road

Winner: Stephen Cheng Consulting Engineers Ltd.  
Hong Kong Project – Non-Residential



**Client:** Henderson Land Development Co. Ltd.  
**Structural Engineer:** Stephen Cheng Consulting Engineers Ltd.  
**Architect:** Dennis Lau & Ng Chun Man Architects & Engineers (HK) Ltd.  
**Main Contractor:** E Man Construction Co. Ltd.

#### Project Description

18 King Wah Road is a Grade A office development project. While it is only 22-storey tall, it amalgamates iconic structural features with sophisticated aerodynamics and technically inspiring design. It presents a sense of timeless aesthetics and at the same time embodies many intelligent systems, innovations and green features.

#### Project Features

- **Iconic Y-columns** – The ‘Y’ columns are a prominent feature of the building. They permit a mismatch between the tower columns and the podium columns without the use of a transfer plate. Meticulous structural design and adjustment of column spacing were required to arrive at the intended architectural elegance.
- **Solar-responsive façade** – The building is located at the water front of the Victoria Harbour. The location offers a magnificent view of the Harbour but is also hampered by the late afternoon setting sun. The project team came up with the idea of two solar-responsive façade sunshades working in dynamic balance to shield the sun and yet allow unobstructed view of the harbor.

## COMMENDATION MERIT

### Hong Kong Children’s Hospital

Winner: Architectural Services Department  
& Meinhardt (C&S) Ltd  
Hong Kong Project – Non-Residential



**Client:** Hospital Authority  
**Project Manager:** Architectural Services Department  
**Structural Engineer:** Meinhardt (C&S) Ltd  
**Architect:** Simon Kwan & Associates Ltd.  
**Main Contractor:** China State – Shui On Joint Venture



#### Project Description

The project is to provide the first specialist children’s hospital in Hong Kong’s public healthcare system. The Hong Kong Children’s Hospital is 285m long and 70m wide. It comprises two 11-storey high towers with wards, operation theatres, landscape gardens and other rehabilitation facilities and 2-storey basement structure for carpark and other supporting facilities of the hospital. The Hong Kong Children’s Hospital strives to create a non-institutional, home-like, child-friendly, comfortable and cozy environment that provides the best clinical practice under a patient-centered approach, facilities multi-disciplinary and cross-specialty collaboration, and provides efficient and flexible use of facilities and resources with appropriate sharing.

#### Project Features

- The project was delivered in a fast track mode through the procurement of the design-and-build contract.
- The project strategically adopted design for productivity in excavation and lateral support works to optimize shoring arrangement for productive, efficient and safe excavation to provide more spacious, brighter and well-ventilated working environment.
- **Iconic feature** – The internal link bridge on 9/F is one of the longest in Hong Kong located over 46m above ground without any intermediate support.
- Full vibration assessment to well control floor vibration.



## COMMENDATION MERIT

### Queen Elizabeth Hospital Ambulatory Care Centre Extension

Winner: Architectural Services Department &  
AECOM Asia Co. Ltd  
Hong Kong Project – Non-Residential



**Client:** Hospital Authority  
**Project Manager:** Architectural Services Department  
**Structural Engineer:** AECOM Asia Co. Ltd.  
**Architect:** Wong Tung & Partners Ltd.  
**Main Contractor:** Yau Lee Construction Co., Ltd.

#### Project Description

The Ambulatory Care Centre Extension project is to provide additional healthcare facilities in Queen Elizabeth Hospital with tight construction timeframe in a congested site environment bounded by sensitive neighbourhood. The building footprint is 70m long and 35m wide. It comprises a 11-storey clinic building and two link bridges.

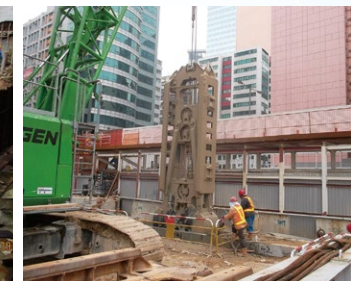
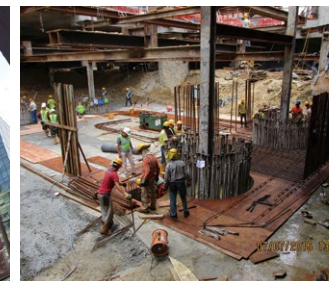
#### Project Features

- Substantial precast construction achieved cost effective, fast track purpose and reduction of construction waste
- Two iconic link bridges connecting Ambulatory Care Centre Extension and existing Queen Elizabeth Hospital, with careful planning by using BIM and prefabrication to enhance buildability.
- Stringent measures to reduce disturbance such as noise and vibration to existing occupancies
- Sustainable greening features – two green roof gardens and vertical greenery to achieve High Green Ratio & Gold Rating in BEAM-Plus
- Environmental friendly natural lighting and ventilation system for carpark area
- Aesthetic main concourse
- Curtain wall with energy efficient low E Glass

## COMMENDATION MERIT

### Two Harbour Square

Winner: C M Wong & Associates Ltd  
Hong Kong Project – Non-Residential



**Client:** Easywise Ltd. & Crown Opal Investment Ltd.  
**Structural Engineer:** C M Wong & Associates Ltd  
**Architect:** Andrew Lee King Fun & Associates Architects Ltd  
**Main Contractor:** Sanfield Engineering Construction Ltd.

#### Project Description

- Redevelopment project in Kwun Tong, from industrial building to office tower
- Grade A commercial building comprises 23-storey tower and 4-storey basement
- Site area: 39,935 s.f.
- GFA: 479,000 s.f.
- Building height: 104.5m
- Basement depth: 17.5m
- Foundation type: large diameter bored pile (Dia. 3m & 2.5m)

#### Project Features

- Short construction period
- Semi top-down construction method to shorten overall construction period
- DSD pumping station (sensitive structure) is adjacent to the site
- Large diameter bored pile as permanent column
- 1m thick diaphragm wall as both temporary and permanent retaining wall to provide better control of ground settlement during construction
- Sub-soil drain system implemented at basement to reduce design uplift pressure from 190kPa to 30kPa
- Cost saving for shorter socket length of bored pile, and construction cost of basement slab
- Peripheral post-tensioning beam achieves high headroom at typical floor



## COMMENDATION MERIT

### Revitalization of the Blue House Cluster into Viva Blue House

Winner: JMK Consulting Engineers Ltd.  
Hong Kong Project – Heritage



**Client:** St. James' Settlement  
**Structural Engineer:** JMK Consulting Engineers Ltd.  
**Architect:** LWK & Partners (HK) Ltd.  
**Main Contractor:** Wah Tat Construction Company / Milestone Builder Engineering Ltd.  
**Others:** Design Architect: Meta4 Design Forum Ltd.

#### Project Description

- The Blue House Cluster, a surviving of pre-war Chinese tenements located in Wan Chai, is the first revitalization project adopting the "Retain House and Tenant" approach in Hong Kong. The heritage value has been respected by application of traditional building materials and techniques whereas the structural safety and sustainability has been enhanced by repair and improvement works.
- A new linkbridge with access lift is constructed to provide alternative fire escape, enhance the barrier free path and enable close neighbour communication.
- The Project has demonstrated a well balance between minimum heritage intervention while meeting the statutory requirements and modern living needs.

#### Project Features

- The linkbridge-and-lift is designed as a standalone structure without interference to the existing buildings. Only the rear windows are converted as new doorways. Removed bricks are reused for matching repair.
- Original construction details of the structural timber elements were recorded before dismantling for inspection. Rotting members are replaced with matching ones. Waterproofing, preservative treatment and fire retardant coating were applied before re-assembling.
- The timber roofs with double-pan and double-roll clay tiles are reinstated to the original form but enhanced with stability and waterproofing treatments. Brick wall cracks are stitching repaired by twisted helical stainless steel bars.

## COMMENDATION MERIT

### MTR Kwun Tong Line Extension C1002 Detailed Design for Whampoa Station (WHA) and Overrun Tunnel

Winner: Arcadis Design & Engineering Limited  
Hong Kong Project – Infrastructures & Footbridges



**Client:** MTR Corporation  
**Structural Engineer:** Arcadis Design & Engineering Limited  
**Architect:** Ronald Lu & Partners  
**Main Contractor:** Chun Wo - Hip Hing Joint Venture



#### Project Description

- Whampoa Station, the new western terminus of the MTR Kwun Tong Line
- At the heart of one of the largest private housing estates in Hong Kong, Whampoa Garden
- Combines both functionality and practicality seamlessly with minimal intrusion to the surrounding environment
- Designed with the vibrant nature of Whampoa Garden in mind
- Design concept was to maintain connectivity within the community during construction and creating smart connectivity

Arcadis provided the following Structural Engineering Services:

- Permanent Structural Works
- Tunneling Works
- Temporary Works
- ELS Works with Traffic Decking
- A&A Works
- Demolition Works

#### Project Features

- Split Concourse linked by Platform Tunnel
  - Combined open excavation and mined tunneling
  - Structure integrated into existing developments
- Integrated Station Entrances – merged with existing basement commercial malls
  - Minimise visual impact
  - Reduced construction works, material and ongoing maintenance cost for client
- Combined Tunnel Escape Staircase and Ventilation Shaft
  - Reduction in construction material and space
  - Design sustainability and cost effectiveness
  - Halved the height of the combined shaft to reduce visual impact
- Integration of Existing Footbridge
  - Reduction in construction time, cost, inconvenience to the public from temporary traffic diversions and construction wastage



## COMMENDATION MERIT

## Direct analysis of high-strength concrete-filled-tubular columns with circular & octagonal sections

R&D Award



Fig. 19. Experimental setup for confined specimens.

**Author(s):** Si-Wei LIU, Tak-Ming CHAN, Siu-Lai CHAN, Derek Kwok-Leung SO

**Publication Date of Paper:** Feb 2017

**Published Journal(s):** Journal of Constructional Steel Research



### Aims of the research / Paper abstract

High-strength-concrete (HSC) is brittle, but its ductility can be dramatically increased when confined by steel tubes. However, the largest dimension of hot-rolled tubular sections is commonly limited to 500 mm, its capacity as mega columns in many high-rise buildings is inadequate. Therefore, the polygonal structural form can be adopted which has virtually no limitation in its size so its application as mega columns in high-rise buildings is practically attractive with confinement effects considered. This research numerically and experimentally investigates the use of fabricated sections as mega-columns by the direct analysis method (DAM). This method is further presented for application with high-strength-concrete-filled-tubular (HCFT) columns with circular and octagonal cross-sections to allow for confinement effects in concrete. A complete numerical framework for practical application of this new structural form is developed. Examples are given for verifying and validating the proposed method for HCFT columns with circular and octagonal cross-sections.

### A brief on unusual features

Comparing to hot-rolled circular hollow sections of size commonly limited to 500 mm in diameter, the polygonal structural form has virtually no limitation in its size so its application as mega columns in high-rise buildings is practically attractive with confinement effects considered. Therefore, an optimal and practical solution can be achieved by using the alternative – octagonal shaped section. This new structural form is proposed in this paper, which could be widely used in tall buildings but its design is not available in design codes. The related studies are still very limited. Another distinct feature of this research includes the integration of the high-performance element with the rigorous section analysis technique, which only requires the basic material properties. Therefore, the conventional research method relied on lots of member specimen tests is eliminated and only a few numbers of tests for material properties are required for new sections and materials.

## COMMENDATION MERIT

## Seismic retrofitting of non-seismically designed RC beam-column joints using buckling- restrained haunches: design and analysis

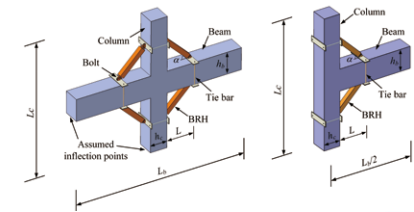
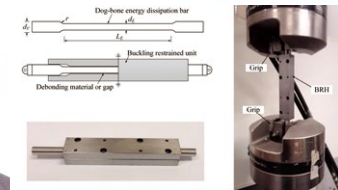
R&D Award



**Author(s):** Bin WANG, Songye ZHU, You-lin XU, Huanjun JIANG

**Publication Date of Paper:** 10 May 2017

**Published Journal(s):** Journal of Earthquake Engineering



### Aims of the research / Paper abstract

Before 2004, the design philosophy in Hong Kong had followed the British standard BS8110 series for a long time. Reinforced concrete (RC) structures were designed and detailed only based on gravity and wind loads, which are known as non-seismically designed RC structures. Past earthquake reconnaissance showed that strong earthquakes can lead to substantial damage to non-seismically designed RC buildings, particularly to their beam-column joints. This paper presents a novel retrofit method using buckling-restrained haunches (BRHs) to improve the seismic performance of such joints. This study first includes the proof-of-concept experiment of a scaled BRH specimen and then provides the numerical approach for the modeling of non-seismically designed beam-column joints. Subsequently, a new seismic retrofit strategy using BRHs is proposed, aimed at relocating plastic hinges and increasing energy dissipation. The results indicate the effectiveness of the proposed BRH-based retrofit method in meeting the expected performance objectives.

### A brief on unusual features

Although a variety of strengthening and retrofit techniques have been studied and adopted in practice, however, most common retrofit techniques have focused on the strengthening of the non-seismically designed joints and aimed to improve the joint shear strength in the retrofit design. Because the strength proportion of these components (column, beam, and beam-column joint) has been changed under the conventional retrofit methods, new weak points (i.e., damage locations) may move to the adjacent non-ductile columns or beams, leading to adverse damage to the columns or beams. This paper proposed and designed a novel device termed buckling restrained haunches (BRHs), which will not only protect non-seismically designed beam-column joints, but also further improve structures to exhibit the desired damage modes and dissipation mechanism. A seismic retrofit design methodology for non-seismically designed beam-column joints using BRHs is proposed, and its effectiveness is validated by numerical simulation of two representative cases.

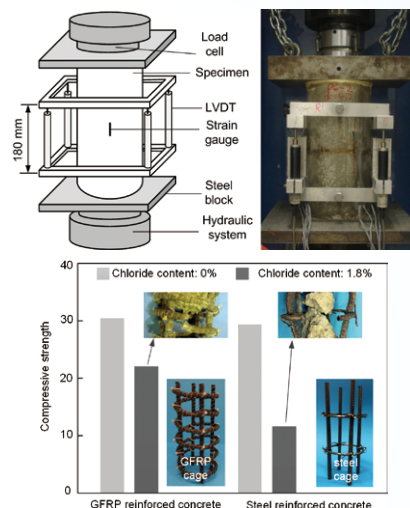
## COMMENDATION MERIT

### Structural behavior of GFRP reinforced concrete columns under the influence of chloride at casting and service stages

R&D Award



**Author(s):** Ao ZHOU, Cheuk Lun CHOW, Denvid LAU  
**Publication Date of Paper:** 10 October 2017  
**Published Journal(s):** Composites Part B: Engineering



#### Aims of the research / Paper abstract

Corrosion attack due to chloride ions is a major problem found in steel reinforced concrete structures when subjected to marine environment. Glass fiber reinforced polymer (GFRP) has become an alternative reinforcement in marine concrete structures due to its excellent corrosion resistance, making it possible to combine with concrete composed of seawater and sea sand. However, the knowledge on the short-term and long-term properties of GFRP reinforced concrete columns is still limited. In order to facilitate the practical application of GFRP reinforced concrete in marine environment, the effect of chloride ions on the structural behaviors of GFRP reinforced concrete columns is investigated here. Numerous specimens consisting of GFRP reinforced concrete columns and steel reinforced concrete columns with different chloride concentrations were fabricated, conditioned and tested. The test results show that GFRP reinforced concrete columns cast with saturated water suffer a deterioration of 27.9% in load carrying capacity, but possess an enhancement of 104% in ductility when compared to those of specimens cast with distilled water. Meanwhile, it is observed that the GFRP reinforced concrete column possess a ductile failure mode, which indicates that the GFRP spirals can provide an effective confinement to the concrete core even in high chloride environment for a prolonged time. Such findings provide solid evidence to the feasibility and application of GFRP reinforced concrete in the offshore structures or artificial islands with great environmental and economic benefits.

#### A brief on unusual features

In this paper, the effect of chloride ions on the mechanical properties of GFRP reinforced concrete column is studied in order to facilitate the practical application of GFRP reinforced concrete structures in marine environment. It is observed that GFRP spirals can provide an effective confinement to the concrete column and GFRP reinforced concrete columns can maintain excellent mechanical properties in high chloride ions environment. Furthermore, a predictive model is proposed which can evaluate the load carrying capacity of GFRP reinforced concrete column with various chloride concentrations. The knowledge and findings provided in this paper will be of prompt use in GFRP reinforced concrete structures, especially in civil infrastructure related to artificial island, marine and off-shored structures. The paper is original in a sense that it provides a very feasible application of GFRP in civil infrastructure with justification from experimental and numerical approaches. It is envisioned that the GFRP combined with concrete is a durable and sustainable structural solution for structures in marine, off-shored and artificial island environment.

## Best Reporter Awards 2018

Best Reporter Awards were introduced in November 2005 to encourage participation in the events organized by the Structural Division; to promote interests in the respective themes of the events; and to promote report writing skills among members.

Date	Winner	Report Title
1 March 2017	Ir CHAN Chak-hin	Technical Meeting on Design and Construction Challenges of Macau Eiffel Tower
8 July 2017	Mr Ben CHAN Yui-bun	Paper Tower Challenge 2017 Promotes Student's Interest in Structural Engineering with Experiential Learning
11 January 2018	Ir Kelvin SO Hong-lung	Technical Meeting on Mandatory Building Inspection Scheme (MBIS) & Mandatory Window Inspection Scheme (MWIS)

## Best Student Awards 2017

Sponsored by structural engineering firms in Hong Kong, Best Student Awards have been announced to commend our undergraduates who demonstrated excellent overall academic results and high level of competence in structural engineering.

Sponsor	University	Awardee
CM Wong & Associates Limited	The Hong Kong Polytechnic University	Mr CHEN Da-chi
Greg Wong & Associates Limited	City University of Hong Kong	Ms LO Tsz-kwan
T K Tsui - Gabriel Yu Limited	The University of Hong Kong	Mr AU Wai-man
Wong Pak Lam & Associates Consulting Engineers & Architects Limited	Hong Kong University of Science and Technology	Mr CHAN Kwan-shing

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15 <sup>th</sup> 93/94	Ir Hugh WU Sai-him	32 <sup>rd</sup> 10/11
16 <sup>th</sup> 94/95	Ir Ignatius LAU Yik-sum	33 <sup>th</sup> 11/12
17 <sup>th</sup> 95/96	Ir WONG Chi-ming	34 <sup>th</sup> 12/13
18 <sup>th</sup> 96/97	Ir CHEUNG Kwok-ming	35 <sup>th</sup> 13/14
19 <sup>th</sup> 97/98	Ir Prof KO Jan-ming	36 <sup>th</sup> 14/15
20 <sup>th</sup> 98/99	Ir Prof James LAU Chi-wang	37 <sup>th</sup> 15/16
		38 <sup>th</sup> 16/17
		39 <sup>th</sup> 17/18
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		Ir Prof Paul PANG Tat-choi
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