Journal of The Hong Kong Institute of Construction Managers, Limited
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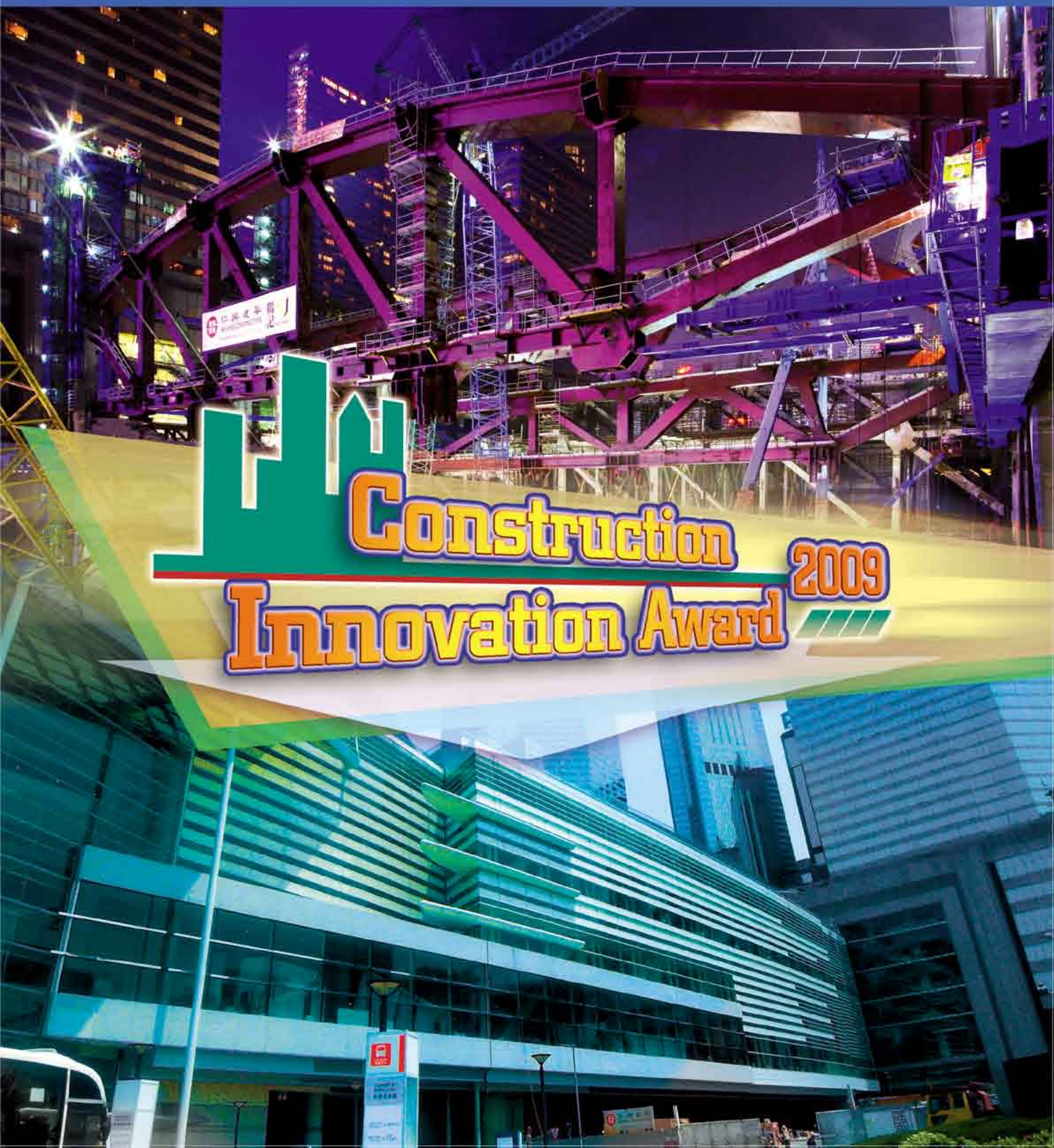
(HKICM is a non-profit making company limited by guarantee 香港營造師學會乃非牟利機構)

HKICM 建造



Our Vision

Pursue Excellence in Construction Management

Our Mission

To Promote:

> Professionalism and Integrity
> The Registration of Professional Construction Managers
> The Recognition of Construction Supervisors

Our Identity

> Incorporated as a non-profit making organisation limited by Guarantee
> Governed by the Constitution of the Institute to function as an educational and professional institution for practitioners in construction management

Introduction

A Construction Manager, who normally has undergone professional trainings in Architecture, Engineering or Surveying, plays a key role in ensuring the success of construction projects. Today's Construction Managers are all-rounded multi-skilled professionals competent in various commercial, legal, contractual, planning, safety, environmental and quality aspects of construction projects.

As the role of building contractors has been shifting from a mere construction administrator to a construction partner of property developers through the introduction of new forms of partnering agreements in terms of capital and project planning structures, the eminence of Construction Managers being key personnel of contractors are obvious, whatever their professional trainings are.

The resultant function-mix of traditional construction professionals has been integrated into the new role of Construction Managers, mostly deployed under the family of the contractors.

While our construction management skills are highly acclaimed by other countries, the importance of Construction Managers has not been realized fully in the territory. The professional status of Construction Managers, who are indeed educated and trained at the same degree of rigor as the Architects, Engineers and Surveyors, are yet to be fully endorsed.

Global evolution stops not for HKSAR, foreign footsteps are speedier no less than our Mainland counterparts in competing for vocational opportunities in the Mainland of China and at international level.

The full official recognition of the Hong Kong Institute of Construction Managers as a Member of the Construction Industry Council is sought, as the first step to help fighting the uphill battle in Mainland for seeking reciprocal recognition as Registered Constructors and to lift the professional status of local Construction Managers in the international arena.

Background

The sophisticating social demand for quality constructions in recent years fosters the higher complexity in construction management. To better reflect the identity of HKSAR and for systematic enhancement of the quality of construction management, under the auspices of the Society of Builders (established since 1961) and a number of construction professionals that added up to a total of over 600 founding members, the Hong Kong Institute of Construction Managers (HKICM) was established in May 1997.

The accommodative profession involves a multi-discipline of construction relatedexpertise, on top of traditional project managers, the importance of which is evidenced by the rapidly increasing number of members practicing in various construction-related trades. These include Engineers, Surveyors, and, Architects joining as members of late.

Chronicle

Past Presidents

1997 – 1999	*Mr. Dicky Sung*
1999 – 2001	*Prof. Peter K. W. Mok*
2001 – 2003	*Mr. Thomas O. S. Ho*
2004 – 2005	*Mr. King-Leung Tam*
2005 – 2006	*Prof. John K.W. Chan*
2006 – 2008	*Dr. Raymond H.M. Leung*

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Dr. Raymond H.M. Leung

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Mr. Christopher Wong

Vice Presidents

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Mr. Peter Y. Y. Ng
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> Mr. K. L. CHAN, BBS, Executive Director & CEO, New World Services Holdings Ltd.
> Mr. Sai-chu HO, SBS, JP, Managing Director, Fook Lee Group of Companies
> Professor Shi-zhao DING, Chairman of Research Institute for Project Administration and Management, Tongji University, Shanghai
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> Mr. Y. C. LO, GBS, JP

Honorary Presidents

Mr. Dicky Sung, Prof. Peter K.W. Mok, Mr. Thomas Ho, Mr. K.L. Tam, Prof. John K. W. Chan

Christopher Wong
President

After months of hard work, I have great pleasure to advise that the Council has made the following significant achievements for the Institute:

Honorary Advisors

To enforce the co-operative agreement signed with Constructor Committee of the China Construction Industry Association in September 2008, the President of the Constructor Committee of the Association has accepted our offer to be the Hon. Advisor of the Institute. It is a great honour to the Institute and a milestone for a closer working relationship in the promotion of technical activities mutually beneficial to the members of both institutes.

It is encouraging to note that 16 HKICM members have completed the Preparatory Course for the China Construction Manger Examination scheduled in April 2009. These members would take the open examination in June.

Construction Innovative Award 2009

The Construction Innovative Award 2009 has been successfully launched with the full support from all members. The response was tremendous. The Jury Panel under the Chairmanship of Professor John Chan commended the participants for the high quality submissions and recommended to grant 6 finalists with the Distinguished Awards. Congratulations to the Awardees. Thanks to the members of the Jury Panel and the Organizing Committee.

The Construction Innovative Awards will be presented at the Annual Dinner scheduled on the 12th of June 2009. Mrs. Carrie Lam Cheng Yuet Ngor, Secretary for Development, has kindly consented to be the Guest of Honour of our Annual Dinner.

This newsletter will feature an article on the full details and highlights of the Construction Innovation Award 2009.

Professional Services Development Assistance Scheme

*I am delighted to advise that the Government has accepted our application for the Professional Services Development Scheme commencing on 1 July 2009. The project title is: Enhancing the Competitiveness of Hong Kong*s Construction Professionals in Participating in Novel Mega-Scale Projects in Middle East. I must express a big thanks to Dr. Thomas Ng who has made strenuous effort in preparing the submission and answering many rounds of questions raised by the responsible government officials. More details will be announced in the coming months.*

Mediation Services

A special course has been organized with the Hong Kong Mediation Centre in April 2009 for our members to be qualified as accredited Mediators. The first batch of students has taken the assessment. Soon we will be offering mediation services to our members.

Registered Construction Managers

We have conducted a questionnaire survey and received overwhelming responses from members concerning the intention to implementing a registration system for Registered Construction Managers. Nearly all respondents favour the proposal. The Council is studying on the proper procedure to have such a registration system in place and an EGM may be called at an appropriate time to pass this special resolution.

I look forward to receiving your continuous support.

The Publications Committee of HKICM 2008/ 2009
Chairman: Dr.Herman Tso
Members: Mr. Chan Wai Shing, Mr.S. W. Ha, Mr. Thompson Chan, Mr. Paco Tsang, Mr. Tang Chi Wan and Mr. Anthony Lai

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Mediation Training Course

Date : 21 Feb. 2009 - 7 Mar. 2009

Hong Kong Institute of Construction Managers and Hong Kong Mediation Centre jointly organized an Advanced Mediation Training course in March 2009 with 16 participants, who were very satisfied with the instructors' teaching styles and assessment methods of the course.

Thank you acknowledgment:

Thank you to those members who give their donation generously and offering their help voluntarily at no time. Once hear the announcement of fund raising for the tragic incidents, i.e. the Sichuan earth quark and the five steel workers killed in the traffic accident.

We thanks you all again.

Courtesy Visit to Government Departments

Buildings Department

Date : 17 February, 2009

Visiting members of HKICM:

Mr. Kenneth Mok, Mr. Tang Chi-wan, Dr. C.M. Ho, Mr. Christopher Wong, Mr. Honby Chan, Mr. Patrick Lai, Mr. Thompson Chan

Mr. Christopher Wong and Mr. Au Choi-kai, Johnny JP

EMSD

Date : 25 February, 2009

Visiting members of HKICM:

Mr. Jeff Cheung, Mr. Peter Ng, Mr. Patrick Lai

Banner presenting to Ir. Li Kwok-keung

Housing Department

Date : 11May, 2009

(front row left to right)
Mr. Christopher Wong, Ms Ada Fung, Mr. Chan Nip-ming

((back row left to right)
Dr. C. M. Ho, Mr. Kenneth Mok, Mr. Peter Ng, Mr. Barry Sin, Ms Irene Cheng, Ms Iris Chan

Walks for Millions

Date : 11 January, 2009

Site visit to Hanoi Road Project

Date : 17 January, 2009

Time : 9:00am to 12:00 noon, w/3 cpd hours

Group photo

Mr. Lee Fook Pui (right) presenting a souvenir to site representative

Visit to Ngai Wah Factory

Date : 21 February, 2009

Chairman of JO, Anthony Lai (right) presenting a souvenir to factory representative.

Coming Events

June 2009

CPD -
Climbing Platform & Jumpform System

5 July 2009

JO Event - 一天遊
大埔船灣高爾夫球場
上瑤客家民俗文化館 / 中華海豚訪客中心 / 西貢海鮮午餐
詳情請參閱本會網址
www.hkicm.org.hk

July 2009

CPD -
The Purposes and Practice of Construction Insurance

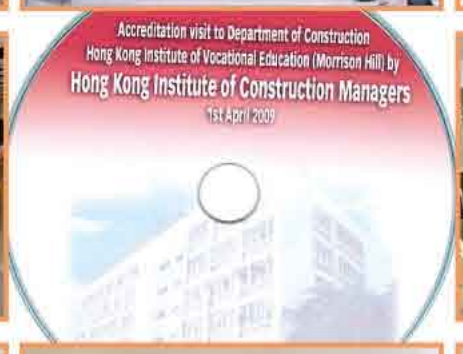
Sept. 2009

CPD -
Visit to China Construction Industry Associationin Beijing

Accreditation Visit to Department of Construction Hong Kong Institute of Vocational Education (Morrison Hill)

Date : 1 April, 2009

Course Code	Course Title
51312F	Higher Diploma in Building Technology and Interior Design
53303F	Higher Diploma in Building Studies (Part Time Day)
55903F	Higher Diploma in Building Studies (Part Time Evening)
51311F 55911F	Higher Diploma in Surveying



◀ Group photo front row (left to right)
Mr. Kinsen Fok (Secretary General),
Prof. Eric Zhang (HKUST),
Mr. Lee Fook Pui (Chairman of the visiting panel),
Ir. Joseph Chan (HKIE),
Mr. Hector Cheung (HKIA),

Back row IVE staffs.

(資料來源：中國建造師網站)

中國一級執業建造師

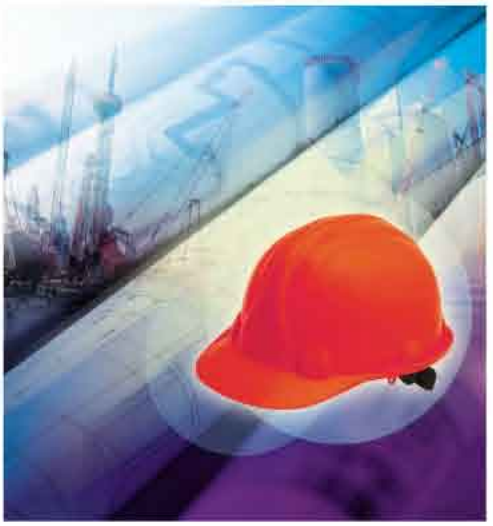
定位與職責

建造師註冊受聘後，可以用建造師的名義擔任建設工程項目、施工的專案經理、從事其他施工活動的管理、從事法律、行政法規或國務院建設行政主管部門規定的其他業務。在行使項目經理職責時，一級註冊建造師可以擔任《建築業企業資質等級標準》中規定的特級、一級建築業企業資質的建設工程項目施工的專案經理；二級註冊建造師可以擔任二級建築業企業資質的建設工程項目施工的專案經理。大中型工程項目的專案經理必須逐步由取得建造師執業資格的人員擔任。

考試科目

- 建設工程經濟
- 建設工程法規及相關知識
- 建設工程項目管理
- 專業工程管理與實務（10個專業類別）

一級建造師執業資格考試為滾動考試（滾動週期為2年），參加4個科目考試的人員必須在連續兩個考試年度內通過應試的全部科目為合格



專業類別調整

為適應中國建築市場發展需要，有利於建設工程項目與施工管理，經建設部和人事部研究，對建造師的專業類別進行調整，自2008年度起建造師資格考試報名均應按照調整後的專業類別進行，詳情如下：

2008年一級建造師專業設置	原專業
建築工程	房屋建築工程、裝飾裝修工程
公路工程	公路工程
鐵路工程	鐵路工程
民航機場工程	民航機場工程
港口與航道工程	港口與航道工程
水利水電工程	水利水電工程
市政公用工程	市政公用工程
通信與廣電工程	通信與廣電工程
礦業工程	礦山工程、冶煉工程(土木部分)
機電工程	電力工程、石油化工工程、機電安裝工程、冶煉工程(機電部分)

《中國一級建造師執業資格考試》輔導講座

講座簡介

在內地與香港更緊密經貿關係(CEPA) 的框架下，香港工程界與內地同行合作與發展更加廣泛。為了推動內地與香港工程界的合作，國家人事部批准（人事部國人部發〔2005〕9號文件），自2005年起，香港居民可以參加有關一級建造師執業資格考試。2008年沒有舉辦的《一級建造師執業資格考試》預計將於2009年年中在全國範圍內進行，而2009年度的考試預計將於2009年年底進行。

為了協助香港工程業界人士瞭解一級建造師執業要求和考試內容，以及協助參加考試的認識獲取一級建造師執業資格，由香港工程師學會仲會員事務委員會、香港中國研究生會、香港建設管理交流中心和泛亞教育中心主辦及其工程界社促會、英國工程監督學會香港分會和香港營造師學會協辦，舉行「一級建造師執業資格考試輔導講座」，講座已於2009年4月10日 - 4月19日完滿結束，當日更邀請到廣東省建設執業註冊中心之專家授課，幫助各考生為一級建造師執業資格考試作好準備。

講座內容

講者憑藉豐富的一級建造師工程師考試大綱執業要求和經驗，重點講授工程師應有的知識。

1. **建設工程經濟：**
   工程經濟、會計基礎與財務管理、建設工程估價、宏觀經濟政策及項目融資

2. **建設工程項目管理：**
   建設工程項目的組織與管理、建設工程項目施工成本控制、建設工程項目進度控制、建設工程項目質量控制、建設工程職業健康安全與環境管理、建設工程合同與合同管理、建設工程項目信息管理

3. **建設工程法規及相關知識：**
   建設工程法律制度、合同法、建設工程糾紛的處理、建設工程法律責任

教材內容

第一冊： 建設工程經濟
第二冊： 建設工程項目管理
第三冊： 建設工程法規及相關知識
第四冊： 考試復習手冊，包括：考試大綱、樣題和模擬試題（含：建設工程經濟、建設工程項目管理、建設工程法規及相關知識）

中國建築業協會
建造師分會簡介

中國建築業協會建造師分會於2007年12月26日成立。是中國建築業協會的分支機構，英文名稱為：Constructor Committee Of China Construction Industry Association。

宗旨： 團結和教育會員遵守《建築法》和有關法律、法規及工程建設強制性標準，恪守建造師職業道德和行業規範，維護會員的合法權益，提高會員的執業素質，加強行業自律，開展國內外同行間的交流，促進我國工程建設水準的提高和建築業的健康發展。

業務範圍： （一）組織開展調查研究，反映建造師訴求，維護其合法權益，為有需求的會員協助開展必要的法律救 助等；
（二）組織開展建造師信用體系建設，建立並不斷完善建造師執業的自律機制；
（三）組織開展建造師的經驗交流、課題研究、資訊溝通等。開展建造師社會團體間的國際交流與合作；
（四）研究分析註冊建造師的執業狀況和能力需求，參與組織開展建造師有關專業的繼續教育工作；
（五）辦理建設部和中國建築業協會委託的其他有關工作。

會員： 會員由從事公共與民用建築和鐵道、公路、冶金、煤炭、水利電力、化工、石化等專業具有註冊建造師資格的專業人士和業內資深人士組成，目前會員人數已發展到2000多人。

組織機構： 會員代表大會是最高權力機構，每四年舉行一次，實行會員代表大會領導下的理事會負責制。

會 長： 劉龍華 北京城建集團有限責任公司董事長

副會長：
趙春山 建設部職業資格註冊中心主任
王曉州 鐵道部工程管理中心副主任
張景珠 中國公路建設行業協會常務副會長
徐 駁 中國通信建設總公司副總經理
袁 文 中國新興建設開發總公司總經理
毛元利 河北建設集團副總裁
房慶強 上海建工集團副總經理
杜 波 青建集團股份公司董事局主席
吳日晶 廣東新廣國際集團有限公司董事長
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王祥明 中建股份公司副總經理
張文龍 北京建工集團有限責任公司總經理
趙立濱 黑龍江建工集團副總經理
樓永良 中天建設集團有限公司董事長
葉新平 湖南省路橋集團建設集團董事長
李裡丁 陝西建工集團總經理

秘書長： 肖 星 **副秘書長：** 李 毅 魏智成 楊智慧

經費： 會費；社會捐贈；依法開展活動或提供服務的收入；其他合法收入。

本會地址：北京中關村南大街48號九龍商務中心A座805室
電 話：62159060，62152112（fax）
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簡歷

中國建築業協會
建造師分會會長劉龍華

1951年10月出生，1968年11月參加工作，1975年畢業於清華大學暖通專業，教授級高級工程師，享受政府特殊津貼專家，政協北京市委第十一屆常委。

歷任北京市設備安裝工程公司通風公司經理，北京市設備安裝工程公司經理助理、副經理、經理，北京建工集團有限責任公司副董事長、總經理，2002年4月至今任北京城建集團有限責任公司董事長，北京城建投資發展股份有限公司董事長。

2007年任中國建築業協會建造師分會會長。

曾榮獲全國優秀建築企業經理，全國優秀施工企業家，首都勞動獎章，奧運工程建設標兵。

北京城建集團介紹

北京城建集團是以工程總承包、房地產開發、設計諮詢、經營生產和資本運作相結合的大型綜合性建築企業集團，具有房屋建築工程、公路工程施工總承包特級資質和市政公用工程、機電安裝、地基與基礎、鋼結構、公路路面、城市軌道交通工程等一批專業總承包一級資質。以工業與民用建築、市政工程、地鐵、高速公路、深基礎工程、機場港口、長輸管線等工程設計、施工、房地產開發和資本經營為主業,並從事工業生產、物業經營、飯店管理、外經外貿等多種業務。是“中國企業500強”之一，“世界 225家最大國際承包商”之一，“中國最具影響力企業”、“中國十大影響力品牌”企業和“全國優秀施工企業”。

北京城建集團現有總資產360億元，員工三萬餘人，年經營額近300億元。現有120余家法人企業、24家分公司（事業單位）。其中主要法人企業包括上市公司1家，全資、控股子公司27家，參股企業22家。集團公司及所屬40家企業通過ISO9000、ISO14001、OHS18000認證。

集團公司組建以來，已優質快速地完成了一大批國家、省市重點工程、外資工程和國際工程，55次獲得中國建築業最高獎“魯班獎”和國家優質工程獎，673次獲得北京市“長城杯”獎和省市優質工程獎。集團在國內近30個省市承擔業務和專案，在亞洲、歐洲、非洲等20多個國家承建了工程項目,創造了良好的信譽。

北京城建集團承建了國家體育場（鳥巢）、國家體育館、五棵松文化體育中心、奧運村等19項奧運專案及其配套工程，以及國家大劇院、中央電視臺、首都機場3號航站樓、銀泰中心和國內外多個城市的地鐵線路和高速公路等重大工程建設專案。

北京城建集團，正在致力於為把集團建設成為具有國際競爭力的綜合性大型企業集團而不懈努力！

Interview with Mr. Kenneth H. W. Mok
專訪莫漢華先生

進營委員會主席黎樹生先生於2009年1月2日訪問了香港營造師學會副會長(內部事務)莫漢華先生。以下是訪問內容。

小檔案

Kenneth H. W. Mok (莫漢華先生) 在加拿大留學取得土木工程學士及碩士學位。他同時擁有香港加拿大及美國註冊專業工程師的資格。他首份工作是於1988年在加拿大當地一市政府之屋宇署任職工程師，當時整個市政府只得一個華人。工作兩年後，便躍升至主管，管理ZONING， PLANNING，PLAN EXAMINATION與OP等部門之工作。在加拿大工作至一九九五年回流香港，先後出任不同大型建築公司的董事，工餘時亦積極參與建築行業不同界別，專業學會和建造商會事務。莫副會長從事建造業廿多年的經驗裏，獲得多方面工作上的技能知識和經驗，他這次接受訪問，希望和HKICM會員近距離交流和分享他的工作經驗和處事態度。整個訪問莫副會長平易近人，態度積極，熱忱工作，正是當前我們面對環球金融海嘯帶來建造業的逆境和接著隨時而來的機遇的一個好榜樣。

面對建業的逆境挑戰-「機會只會留給有準備的人」

對於香港建造業就業不足率高企，被逼離開香港或在澳門工作的各階層行業人士越來越多，莫副會長勉勵我們：「處事要彈性，識變通，多學習尋求各方面發展。舉例來說，如家庭許可的話，現在則可考慮往中東或國內尋找隨時而來的機會」，「個人方面，大家要緊守岡位，不要放棄，要注重管理，品質，品牌之方面的競爭優勢」他相信有危便有機，積極面對，便能「轉危為機」！

入行歷程

莫副會長自小受建築行業薰陶，他的父親和三位叔叔都是在建築業任職，幼時跟從父親在假期往工地巡視地盤時，便覺得很神奇。在施工地盤上，每個月都不斷轉變，地盤由一片空地漸變成一棟棟的高樓大廈，那種感覺很奇特，往後便經常在同學仔面前自豪地描述那座建築物他的父親有份參與。他在中學時期，已有抱負將來能當一位工程師時，親身參與建築項目的營造。

畢業後，在加拿大工作至一九九五年（詳見小檔案），因當時仍年青，想作多方面的嘗試，剛巧他的叔叔在香港成立一間新公司，以吸納當時政府房屋署急升之工程，便毅然從加拿大回流發展，一直在香港工作至今。

難忘經歷

莫副會長認為每一個項目都有挑戰性和難忘的回憶。較近期的涉及一項參與保育的工作，將四座百多年的建築物，鞏固結構和翻新。在工作初期時，工作進展非常順利，進度亦非常滿意。在開工約六個月後，始發覺某部份附屬之建築物，遺漏了向屋宇署申請 CONSENT（開工同意紙）（註：那個項目總共有大大小小十七個CONSENTS需在不同時期申請）。後來，他們的公司自發性停工，並向屋宇署申報。不過原來屋宇署處理這些個案需要很多程序和測試要執行。最終是有關項目部份停了四個月才能復工，由原先工程較計劃早了少許時間變成延遲了完成。

從這樁事故，他明白到不能讓勝利沖昏了頭腦，凡事要「居安思危」。在項目順利進展同時，反而要冷靜分析檢討以往，並計劃將來。

管理經驗分享

莫副會長認為工程管理人員，要做到全面性（ALL-ROUNDED）。因為所兼顧的問題和範疇，實在太多，如工程技術、施工計劃、質量、環保、安全、成本控制、法律合約等等。

此外，「溝通技巧」亦為首要 - 與業主、顧問、判頭、下屬、工人等，均需要不同的「溝通」技巧。再者亦要信任下屬，「疑人勿用」。他對屬下每一個項目經理，皆「放手」讓他們主導項目，只在重要環節時給予提醒，或協助他們解決一些遇到的難題。他深信施工方法條條大道通羅馬，若過份干涉，只會令下屬失去信心和工作興趣。

工作與家庭分配

莫副會長身居公司要職，工作原則是早八晚八。但現在資訊科技進步，很多時工餘或放假，均會使用電腦工作，如上網回覆電郵等。工餘時亦參與了一些學會事務或出任一些機構公職，故很少私人時間。

現在工餘時，反喜歡撥多些時間陪伴家人，珍惜天倫之樂。每當長假期，多數和家人出外旅行散心和充電。最後，莫副會長不忘勉勵大家要緊守岡位，不要放棄。有危便有機，積極面對，便能「轉危為機」。

TANG, Chi-wang
Chairman of Award Committee

Construction Inno

Chairman Message of

This is the first year we have HKICM Construction Innovation Award, the aim of which is to recognize and honour individuals and/ or companies that have demonstrated some form of innovation that benefits the industry, whether it is an innovative idea, process or end product.

The objective of this award is to bring innovation to the forefront of the industry, highlighting methods that innovatively reduce costs, increasing production or efficiency, that otherwise may not have been brought to the industry's attention. By honouring and recognizing innovation, we hope to inspire and encourage more companies and individuals to make the effort to develop this area, which will ultimately bring many benefits across the construction sector as a whole.

Through this award we will:

- Identify important innovations that have contributed to costs effectiveness and construction quality
- Educate industry leaders on the importance of innovation within their companies and organizations
- Encourage contractors, clients, buyers, engineers and associations to develop, require and implement innovation processes
- Publicly recognize important innovations with an award ceremony
- Develop financial support for further innovation within the construction industry

The details of the Awards are shown as below:-

Target Participants

- All Members of HKICM, Construction Practitioners and Academia

Requirements

- Each Submission may be made by up to three participants, however, at least the primary participant should be a member of HKICM
- Submission shall be endorsed by participant's/ participants' current employer(s)

Language

- Participant(s) may submit a report in English or Chinese and give oral presentation in English or Cantonese.

Assessment

- Assessment is based on both written submission (70%) and oral presentation (30%).

Written Submission (Max. 1000 words excluding diagram, photos and drawings)

- Written presentation and clarity of expression. (20%)
- Generation of Innovative idea and applications (30%)
- Significance/ Contribution (30%)
- Personal involvement (20%)

Oral Presentation (20 min. presentation + 15 min. Q&A)

- Personal appearance, general presentation and clarity of expression (30%)
- Ability to communicate and to react to questioning (70%)

There are numerous entries of different categories from various organizations. The jury panel was much impressed by the quality paper submitted by and the outstanding presentation given by the participants.

Innovation Award 2009

Congratulations to the winners below! Thank for their support to the Institute and contribution to the construction industry.

Distinguished Construction Methodology
China Resources Construction Co. Ltd.

Distinguished Research Paper in Concrete Technology
Department of Building and Construction, City University of Hong Kong

Distinguished Construction Technology
Hip Hing Construction Co. Ltd.

Distinguished Project Management
ISG Asia (Hong Kong) Ltd.

Distinguished Revitalization Project
The Link Management Ltd.

Distinguished Building Material
New House Construction Co. Ltd. and Lubrizol Advanced Materials Asia Pacific Ltd.

In addition to the above winning categories, we also recognize best submitted paper and best presentation:-

Best Submitted Paper
Hip Hing Construction Co. Ltd.

Best Presentation
The Link Management Ltd.

Jury Panel

Prof. John Chan - Chairman of Jury Panel

Prof. Chan is an Honorary President and was the President of the Hong Kong Institute of Construction Managers. He has served as Chairman of the Building and Materials Divisions of HKIE, President of AIB (Hong Kong Chapter), Council and Court Members of Hong Kong Baptist University and Director of Chinese YMCA of Hong Kong. He has taught at The University of Hong Kong, the City University of Hong Kong and the Hong Kong University of Science and Technology. He has been recently appointed as Honorary Professor of the School of Science and Technology of The Open University of Hong Kong.

Prof. John Chan

Prof. K.C. Ho, BBS - Vice-Chairman of Jury Panel

Prof. Ho is the Dean of School of Science & Technology and Programme Leader in Environmental Studies and Applied Sciences of The Open University of Hong Kong. His public and social services include: member of the Advisory Council on the Environment (ACE), Deputy Chair of the EIA Sub-committee, member of the Town Planning Appeal Board, member of the Appeal Board on Water Pollution Control Ordinance, Council Member of the Chinese Environmental Science Society, President of Green Power. Professor Ho was awarded the Bronze Bauhinia Star (BBS) badge by the Chief Executive of HKSAR to honour his outstanding contributions to environmental protection and environmental research.

Prof. K.C. Ho, BBS

Dr. Stephen S. F. Lee - Vice-Chairman of Jury Panel

Dr. Lee is the Director of Technology Development of Hong Kong Productivity Council. Dr Lee is actively engaged in committee work of various professional engineering societies. He has served as Past Chairman of the IEE (Manufacturing & Systems), and Past Chairman of the Manufacturing and Industrial Engineering Division of the HKIE. He is also currently the Vice President of Guangdong-Hong Kong Association for the Promotion of Technology Enterprise (Hong Kong) Ltd and Senior Vice President of The Hong Kong Association for the Advancement of Science and Technology Ltd.

Dr. Stephen S. F. Lee

On behalf of the Organizing Committee, I would like to express our gratitude to honorable judges, Prof. John Chan, Prof. K.C. Ho, BBS and Dr. Stephen Lee for their precious time and invaluable comments.

TANG, Chi-wang
Chairman of Award Committee

DISTINGUISHED Construction Methodology

Temporary Steel Working Platform at 39/F (Hotel Development Project at Oil Street, North Point)

The project is a hotel development comprising of 10 storeys podium floor and 29 storeys guestroom floor with full precast facade envelope, situated at North Point besides the Island Eastern Corridor. The structure is supported by a L-shape massive transfer plate and post-tensioning transfer girders. The roof floor is steel structure with a 7m cantilevered floor over the edge.

It is one of the most challenging work to erect and dismantle a temporary working steel platform of 18x12 m^2, situated above ground more than 100 meters and protruded beyond building edge more than 7.5 meters, for construction of a cantilevered roof floor of steel structure finished with curtain wall and cladding projecting over the Island Eastern Corridor. Attention had to be taken for public safety and structural compliance in particular upon erection and dismantling of the platform where the available working floor area was only 15x8 m^2. When the roof floor has completed, it obstruct the crane lifting operation.

The design of the temporary working platform was based on reverse thinking approach in considering how to dismantle the platform with tower crane in safe conditions. During the course of erection and dismantling, the stability of the platform was maintained with the aid of permanent structure. It was crucial to establish the structurally analysed procedures and safety sequence of work for having the task be accomplished with time and cost saving in compare with the conventional approach.

華潤營造
CR Construction

Studying the Production Process and Mechanical Properties of Reactive Powder Concrete made in Hong Kong

Reactive Powder Concrete (RPC) is a relatively new cementitious material. Its main features include a high percentage ingredient of Portland cement, very low water-to-binder (cement + silica fume) ratio, a high dosage of superplasticizer, and the presence of very fine crushed quartz and silica fume. Coarse aggregate in normal aggregate concrete is completely replaced by fine quartz sand with particle sizes ranging from 150 to 600 μm. RPC is characterized by ultra-high performance in mechanical properties, particularly in compressive strength (a compressive strength of 800MPa has been recorded). Production of RPC is not yet available in Hong Kong and limited research is available in this area due probably to the complicated production process, and its unknown and unconfirmed properties when made using local materials. This study is an attempt to produce RPC using local materials under laboratory conditions.

In this study, concrete designed from RPC and High Performance Concrete (HPC) is experimentally conducted and compared. Optimal composite materials and conditions for producing RPC were found by investigating the effect of several parameters on compressive strength of RPC, including curing regime, water-to-binder (w/b) ratio, superplasticizer dosage (SP), sizes of quartz sand, percentage of cement replacement by crushed quartz, and heat-treatment temperature and duration. Mechanical properties of RPC samples were evaluated. The measured parameters included compressive strength, splitting tensile strength, static modulus of elasticity, shrinkage behaviour and water permeability.

It is found that longer mixing time is necessary when producing RPC compared to that of HPC and normal strength concrete. In general, RPC with w/b ratio of 0.2, superplasticizer dosage of 2.5%, 150-600 μm quartz sand cured at 27°C water gives the best results in terms of mechanical and composite properties as well as for practical and economical reasons. When the samples are heat-treated at a temperature of about 250° C for 16 and 48 hours, compressive strength of about 200 MPa could even be achieved in 3 days, which can be explained by the formation of xonotlite and tobermorite. Compressive strength, splitting tensile strength and static modulus of elasticity of RPC are found to be significantly higher than that of HPC using the same water-to-binder ratio. It is noted that the rate of strength development of the RPC samples is greater than that of HPC. The continuous strength development of the RPC can be explained by the high silica content of RPC as it contains quartz sand and crushed quartz, which is the major form of pure silica in nature that leads to a continuous pozzolanic reaction at later age. Apart from good mechanical strength of RPC, RPC also exhibits relatively low drying shrinkage and very low permeability which indicates that it is a durable cementitious material.

香港城市大學
City University of Hong Kong

DISTINGUISHED Construction Technology & Best Submitted Paper

HKCEC Expansion : Heavy Lifting of Mega Roof Trusses

The exhibition business in the Asian Pacific region has been growing tremendously in recent years. To compete with other countries in the region, the Hong Kong Trade Development Council decided to expand the atrium link between Phase I and II of the Hong Kong Convention and Exhibition Centre (HKCEC) so as to provide more exhibition facilities to meet this expanding demand. Hip Hing Joint Venture (HHJV) was awarded with the contract to design and build this expansion. The expansion provides an extra of 19,400m2 exhibition area, corresponding to 42% more of the exiting facilities. This expansion, when compared with other tradition building projects here in Hong Kong, was unique in its own nature because of site environment, design and construction constrains, and the innovative construction techniques that adopted. It is a building of structure assembled like a bridge and supported on bearings. The floor structures span 90m between primary supports and designed for highway loadings. During the entire construction period, the building project provides continuous public access, through the project site.

To maintain the normal business of the HKCEC during construction period, two public access or passageways at two different stages were built on the existing atrium structure, which would be partially demolished in phases and partially retained as permanent structure of the new building, and a partially completed new structure. Such a hybridization of existing and new building structure was an innovative and sustainable building design, which earned a leading score from the client against other competitors during the tender stage. The passageways provided a safe and pleasant access for the visitors going to and from Phase I and II exhibition halls and kept any events uninterrupted during the construction period.

Another distinctive feature of the expansion project is the adoption of heavy lifting technique to construct the mega roof trusses, each span 90m and of weight from 1,650 to 2,130ton. These mega roof trusses are the primary structure, from which the entire building structure is suspended. Once, more than 3,500 ton of a pair of trusses and other facilities were being lifted to approx 50m above ground and launched 54m to their final position. It was the heaviest operation of this kind ever in the Hong Kong building construction. The heavy lifting system was specifically designed to suit the construction sequence and site constrains.

Structural Steelwork taking shape

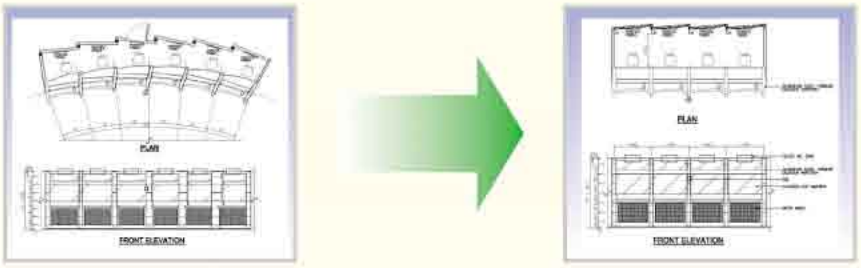
Expansion Project completed

協興建華 HIP HING CONSTRUCTION

Intelligent Project & Space Managements

"Innovation" is an essential element to bring forward continuous improvement and development for any corporation. Being a professional Property Consultant, ISG Asia (Hong Kong) Ltd, we have developed and worked a series of innovative ideas, processes and services to reduce costs, increase production or efficiency for our Clients. They include:

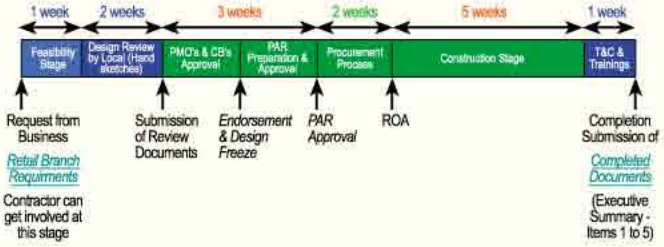
(1) **Build a Better Branch (BBB) Initiative** – The process includes Design Centralization / Design Hub, Design Simplification, Componentization and Material Substitution.



(2) Term Contracts

Application of Term Contracts for all fitting out works.

Term Contract Workflow



(3) ISG Download Center

- ✓ Wed distribution of all tender and contract documents
- ✓ Time Saving
- ✓ Corporate Social Responsibility
- ✓ Green/reduce carbon footprint

"Innovation" is never ending. For the achievement of targets of cost reductions, production enhancement and working more effectively and efficiently, ISG acts as a long-term Services Provider insists to introduce any innovative ideas in order to achieve these common targets.

ISG Asia (Hong Kong) Ltd.

DISTINGUISHED
Revitalization Project
&
Best Presentation







Rejuvenation of Cooked Food Stall
大排檔活化工程

Overview

Being one of the indispensable parts of Hong Kong's collective memory, historical popularity and business prosperity of cooked food stalls in public rental housing estates have seeded the memories of our good old days.

In order to rejuvenate the business ambiance of these premises possessing valuable and unique local cultural sentiments, The Link Management Limited launched a renovation programme and partner with quality food-and-beverage tenants to revitalize this page of Hong Kong's history.

History

Cooked food stalls refer to those cooked food trades operated under fixed pitch hawker licenses. They are the product of historical Government policy to tackle hawking problem on streets.

The stalls are typically housed under a pagoda-like standalone structure. They are typically not air-conditioned because of their open structure, and unauthorized outside seating that occupies associated areas is very common.

As time flies, these obsolete and outdated features gradually caused hygiene issues and other nuisances to the public as well as business challenges to operators.

The Project

Considering cooked food stall as one of the indispensable parts of Hong Kong's collective memory, The Link initiated a partnering approach to revitalize the cooked food stalls through enhancing the hardware and rejuvenating the business ambiance of these premises while the tenants shall surrender their hawker license and modernize their business operation as a normal F&B operator. Wong Tai Sin cooked food stall was chosen as a pilot site for the renovation project.

With the completion of the renovation works in March 2008, the modernized Wong Tai Sin cooked food stall preserves its architectural features and cultural niche in conjunction to a more pleasant and comfortable business ambience and dining atmosphere for the tenants and customers.

Result

Through collaboration with tenants, Wong Tai Sin cooked food stall is revived in a holistic manner. The rejuvenated pagoda structure not only integrates more harmoniously with the surrounding residential estates, but also presents an impressive and unprecedented catering experience to customers, thereby prospering tenants' business.

Most importantly, memories of old Hong Kong are inherited, well-preserved and meticulously promulgated with this renovation programme.

FlowGuard® CPVC: An Innovative Concept to Traditional Plumbing & Drainage Materials

FlowGuard® CPVC Thermoplastic Implemented For Use In Plumbing Systems

FlowGuard® CPVC (also known chemically as Chlorinated PolyVinyl Chloride) is used in hot and cold water distribution systems. The chlorination process contributes a unique performing niche to CPVC as an engineered thermoplastic. CPVC sits on the balance point between Heat Distortion Temperature (HDT) and cost, where cost multiplies when HDT gets higher. CPVC technology pushed the HDT boundary to 115°C, which leads all available engineered thermoplastics in the market, and potentially grows higher when technology gets more mature.

Furthermore, FlowGuard® CPVC also uses an innovative solvent cement jointing method, referred to as "chemical welding", where joints are profoundly strengthened, and able to sustain high pressure unlike conventional type. FlowGuard® CPVC can serve both hot and cold potable water, with either no or minimal insulation applied. Unlike most plastic materials, CPVC is non-combustible that contributes to a safer working environment. In addition, FlowGuard® CPVC not only contributes to material cost reduction, but also time saving on installation, where contractors can take immediate advantage..

CPVC was invented by Lubrizol (formerly BFGoodrich Performance Materials) in 1958. The first residentia installation was completed in 1960.

Since that time, over 3 billion feet of CPVC pipe have been installed – enough to plumb over 12 million homes. Today, FlowGuard® CPVC hot and cold water distribution system is broadly accepted and implemented in most developed countries all over the world.

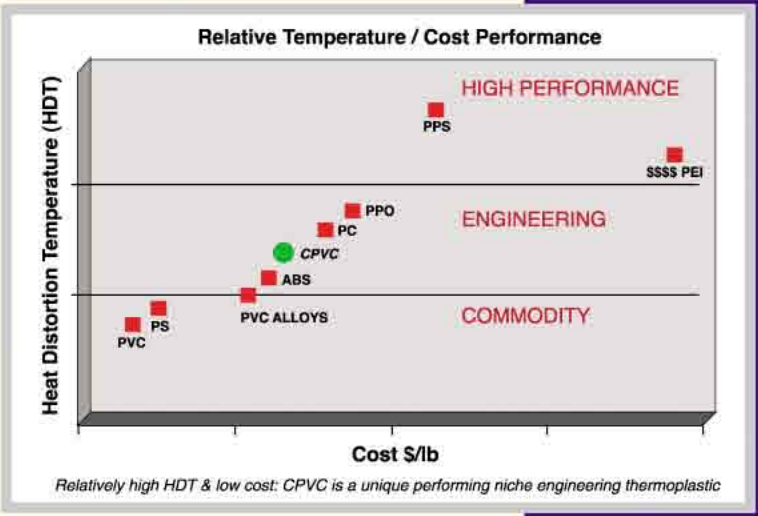
Traditional Material and Method VS FlowGuard® CPVC

Copper pipe is showing its age. Contrary to the belief of some, it is not able to withstand corrosion or pitting which can result from aggressive water and other sources.

FlowGuard® CPVC is one of a kind system comparing to both copper and other plastic system. Based on the long-term use and observation in North America and Europe, FlowGuard® CPVC is far more durable and long-lasting than copper and steel, plus it has no effect on the purity of water it delivers as approved by many well-known certification bodies such as BS, NSF International, and CSA.

In summary, FlowGuard® CPVC significantly outperforms copper on:

- High chemical resistance, avoid pitting caused by aggressive water, and soil (when embedded)
- Corrosion-free, sound water flow and pipe condition through service life



Relatively high HDT & low cost: CPVC is a unique performing niche engineering thermoplastic

- High water quality, proven for lowest bacteria growth & biofilm build up
- High heat retention, minimal insulation work is needed. Avoid drip damage
- Low potential of water hammer damage
- Safe working environment, no flame or electricity is needed for cold jointing method, plus CPVC is electrically insulated
- Stable pricing
- Low maintenance cost, no UV protection is required
- Low transition cost, light weight
- No prone to job-site theft

Features and Benefits of Flow-Guard® CPVC

FlowGuard® CPVC has more value-adding features and benefits as an advance hot & cold potable water distribution system.

- Green product, completely recyclable, also less energy consumed in whole production process
- Easy, and cost-effective installation and reparability
- High mechanical strength, can sustain high pressure rating
- Unique UV stability, UV does not break down CPVC polymer chain in any significant extent, unlike other plastic materials in market.
- Natural fire resistance, limited oxygen index (LOI) is 60, hence it does not support combustion. No flaming drips, no addition to fire load, low flame spread, low smoke generation.
- High service temperature up to 93°C in pressurized environment

Above : rusted copper tee

Corrosion & scaling: inevitable problems on metallic pipe materials

SRDI 社會資源拓展學院 Social Resources Development Institute

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Tuition Fee: HKD 3,000-3,500 per unit

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Commencement date: 10 September 2009
Tuition Fee: HKD 4,500 x 3 (Certificate level)
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Mentor: Ir. Dr. C. M. Ho

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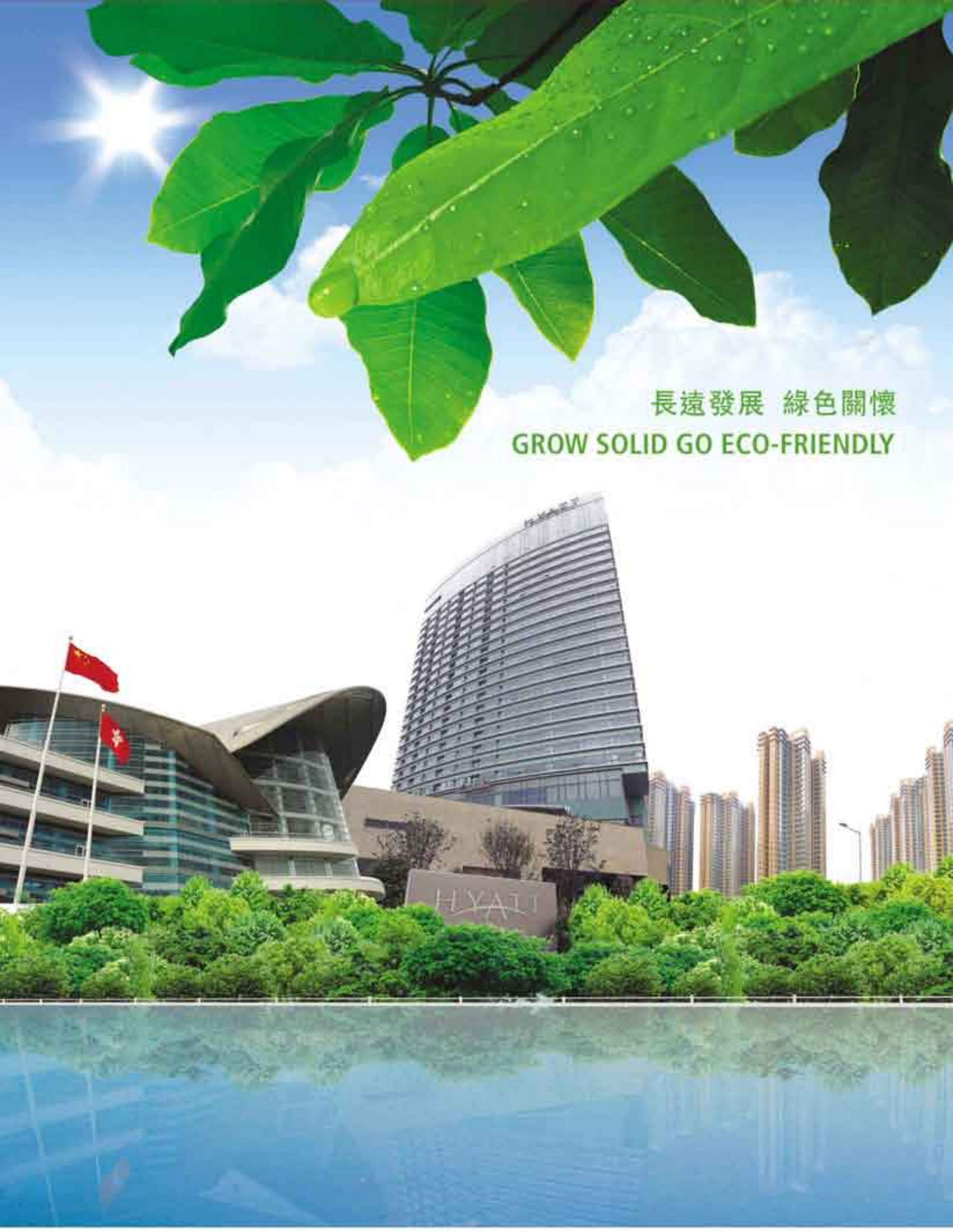

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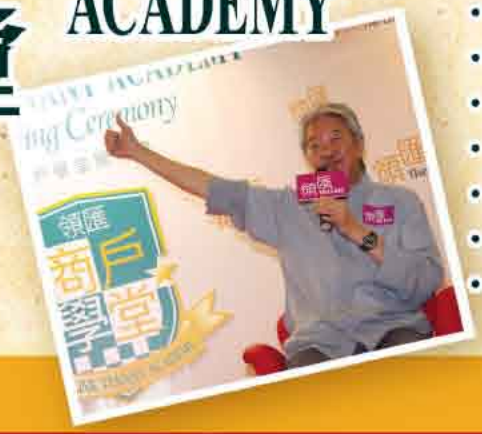
領匯非常學堂

The Link FUN Academy

「領匯非常學堂」於2007年11月成立，定期邀請文化藝術團體、培訓機構、社會名人「開班授徒」。學堂免費向青少年、兒童及其家人提供非一般的學習機會，包括音樂舞蹈、繪畫雕塑、戲劇電影、傳統工藝、運動特訓等，廣受大眾歡迎。

領匯商戶學堂

THE LINK TENANT ACADEMY



領匯由2007年3月起，為商戶舉辦不同主題的講座和工作坊，提供最新的市場資訊及營銷技巧，務求為顧客帶來更優質的服務。

「領匯商戶學堂」曾舉辦之主題講座包括:

- 『蔡瀾與你邊飲邊傾』
- 『張堅庭教你:講故事建立團隊精神』
- 『前線店員應對技巧』
- 『餐飲業節流必勝法』
- 『ISO 22000 食物安全管理體系在香港餐飲業之應用』
- 『建立和諧顧客關係』
- 『如何有效地處理客戶投訴』等等

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