



香港空調及冷凍商會有限公司

THE HONG KONG AIR CONDITIONING AND
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Harvestar Winter 07
貢獻社團

MESSAGE FROM THE PRESIDENT



On 10 October 2007, Hong Kong SAR's Chief Executive Donald Tsang made his first Policy Address of his final five year term. Mr Tsang made it very clear in his Policy Address that Hong Kong is ready for the start of a new era and the Government is to push ahead an ambitious infrastructure-development agenda consisting of 10 mega size projects worth over \$250 billion dollars. The projects are expected to create about 250,000 jobs and boost the economy's added value by more than \$100 billion annually. Many of the mega sized projects are related to improving road transportation, with a particular emphasis on improving links to Shenzhen and the rest of Guangdong province. Some long-awaited cultural and tourism facilities, namely West Kowloon Cultural District and Kai Tak Cruise Terminal, are also

included with definite timetables. With the major spending programmes ahead of us, the construction industry will in no doubt bloom with new direction and new opportunities.

In order to benefit from the rapid improvement of the economy, it is imperative that we have to get ready by preparing ourselves and reviewing our strategies to keep up with the pace of the rapid growth agenda. It may mean innovation for some, or it may mean integration others, but it's different for different company. Whatever path we take, I strongly believe that we all have the strengths and competitive edge to overcome the challenges and be able to enjoy the success in the years ahead. •

NEW TECHNOLOGY

MICROCHANNEL TECHNOLOGY - More Efficient, Compact, and Corrosion Resistant Technology for Air Cooled Chiller Application

INTRODUCTION

Air conditioning industry faces a constant challenge to provide higher efficiency levels and greater equipment reliability. Previous engineering solutions typically include such changes as improving individual components (e.g. higher efficiency compressors) or increasing the overall heat transfer surface area to boost thermal performance. However each of these enhancements tends to increase equipment size, cost or both.

An alternative solution that is experiencing accelerated use in air conditioning applications, both residential and commercial, is the Microchannel Heat Exchanger (MCHX) technology for condenser coil design. This heat exchanger technology has been widely used in automotive industry for many years with substantial success, and is being utilized on residential and commercial applications. It is estimated that microchannel technology is employed in roughly 75% of all vehicles manufactured and sold today. It is recently being used on the condenser coils of air cooled chillers.

MICROCHANNEL COIL CONSTRUCTION

The standard round tube plate fin condenser coil has copper

tubes mechanically bonded to aluminum fins. High thermal efficiency is achieved through direct metallic contact between the tube and fin. Sometimes fin enhancements are utilized to improve the fin's air-side heat transfer capabilities. As a result, great thermal performance is achieved with this high-efficiency coil design. However the use of two dissimilar materials in harsh environments can result in premature corrosion due to the galvanic couple inherent in this design. The aluminum fin is less noble than the copper tube, resulting in galvanic corrosion when the materials are exposed to an electrolyte. The result is attack to the aluminum fin starting at the copper tube/aluminum fin interface. As the corrosion progresses, the performance of the coil is adversely affected due to the build-up of corrosion products at the tube/fin interface. The end result is often poor performance in addition to flaking aluminum fins, and even complete removal of aluminum fin material from areas of coil.

In contrast to standard condenser coils, MCHX coils are constructed utilizing an all-aluminum brazed fin construction. The MCHX coil is composed of three key components: the flat microchannel tube, the fins located between alternating layers of microchannel tubes, and two refrigerant manifolds

(Figure 1). The microchannel tubes in the heat exchanger have excellent heat transfer characteristics on the refrigerant side. Heat transfer is also improved due to the enhanced surface area contact and the metallurgical bond between tube and fin. Fin design is optimized to enhance the fin heat transfer performance. The fin-to-tube bond reduces thermal resistance between the tube and fin, resulting in better heat conduction as well.

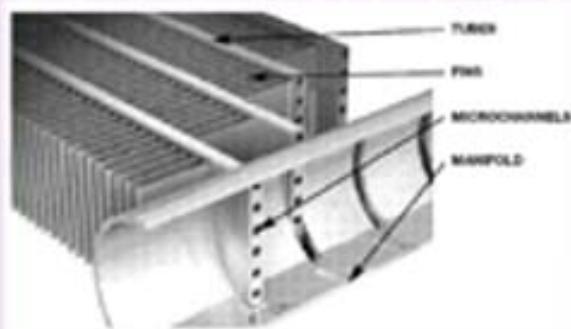


Fig. 1 Microchannel/fin center

The refrigerant carrying tube is essentially flat, with its interior sectioned into a series of multiple, parallel flow, microchannels that contain the refrigerant. In between the flat tube microchannels are fins that have been optimized to increase heat transfer. The flat tube microchannels are layered in parallel with the tubes connected between two refrigerant distribution manifolds. The coil is divided into two passes. One pass is used to de-superheat and condense discharge gas. The second and final pass is used to finish condensing and provide liquid subcooling (Figure 2).

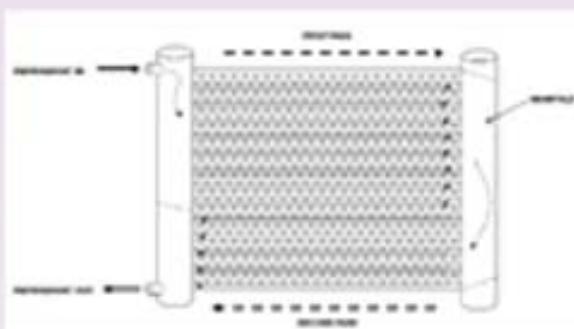


Fig. 2 Microchannel coil construction

BENEFITS OF MCHX IN AIR-COOLED CHILLER APPLICATIONS

Significantly Improved Thermal Performance

The microchannel tubes in the heat exchanger have excellent heat transfer characteristics on the refrigerant side. On the air side, heat transfer is improved due to the enhanced surface area contact and the metallurgical bond between the tube and fin. These make the MCHX heat exchanger approximately 10% more efficient than the conventional 3-row aluminum fin-copper tube coil.

Better Corrosion Protection

The MCHX design utilizes several aluminum alloys, in combination with a metallic coating, for construction of the heat exchangers. The aluminum tube alloy material is initially protected by a metallic layer specifically chosen to be less

noble than the tube material, fin and braze material, resulting in any initial corrosion occurring on this sacrificial layer. The all aluminum construction eliminates the galvanic corrosion which happens on the traditional aluminum fin-copper tube coil where the copper tubes are in contact with the aluminum fins and resulted with poor thermal performance in addition to the aluminum fins flaking. Test results show the MCHX is 3.5 time more corrosion resistant than the traditional aluminum fin-copper tube coil.

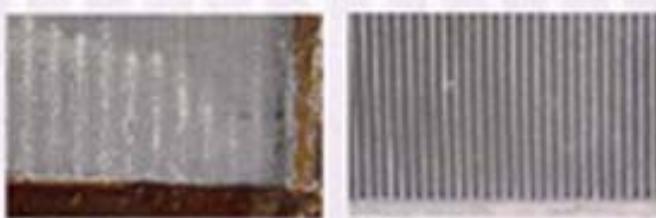


Fig. 3 After 5000-Hour Salt Mist/Ammonium Sulphate test

Structural Robustness

The traditional aluminum fin-copper tube coils always lead to the potential for fin damage during manufacturing, shipping, or after the units are installed. The fins are easily dented and difficult to repair or restore to their original condition. On the MCHX, the surface of the coil is extremely rigid and resistant to damage even when significant impact is made. Surface damage to the MCHX coil is extremely unlikely.

Serviceability

The structural toughness of the MCHX coil outer surface makes it easier to clean. Cleaning a traditional coil with a pressure washer would dent the fins, but this is not the case for the MCHX coil. The structural rigidity of the coil surface allows pressure washing of the coil, which makes it easier to clean and can lead to a longer coil life.

Environmentally Sound Operation

The use of the microchannel technology results with a refrigerant charge reduction by roughly 20 to 40% in a packaged chiller. This provides a more environmentally sound solution for air conditioning systems to help reduce the potential for ozone depletion and global warming. This would also result with a lower maintenance cost in case of refrigerant recharge required.

References:

"High Performance Heat Exchanger for Thermoelectric Cooling with Large Heat Loads," T. Chandratilleka, B. Banerji, and P. Clarke, Department of Mechanical Engineering, Curtin University of Technology, Perth, Western Australia 6845

"Evolution of Microchannel Flow Passages: Thermo-hydraulic Performance and Fabrication Technology," Satish G. Kandlikar, Mechanical Engineering Department and William J. Grande, Microelectronic Engineering Department, Rochester Institute of Technology, Rochester, NY

"Heat Exchanger Improves Air Conditioning Efficiency," Charles J. Murray, Senior Regional Editor, Design News, February 20, 1995

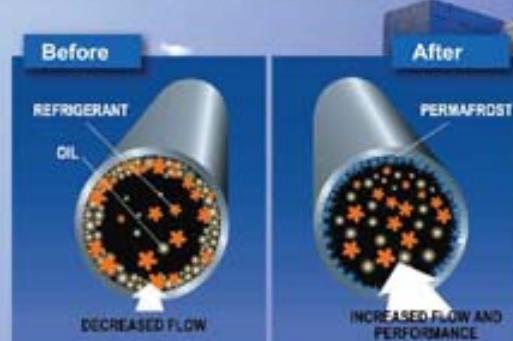
"SAC Coils: The Other Aluminum Coil," Michael P. Panopoulos, Air Conditioning, Heating, and Refrigeration News

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提起機電行業的維修保養工作，很多業內人士都會認識畢金拴先生（Mr. Philip Pih）。畢Sir可以說是維修行業的先驅，早在七十年代初期，已開始維修保養工作，以下且聽他細說行業的發展史。

在1964年工業中學畢業後，畢Sir在偶然的機會下加入當時極負盛名的美商北極冷氣有限公司做文書工作。因為有工業學院的底子，工餘時會幫同事做政府項目的記錄繪圖。當時幫忙繪一張籃紋布的圖可以賺30元，一方面有錢賺，一方面有學，一舉兩得。

當時“北極”其中一位外籍主管是前工務局副局長蘇雲少校，得到蘇雲少校的賞識及推薦，畢Sir開始正式轉做繪圖工作。為了提高僱員的水平，當時“北極”的總經理Dr. Edwin Tao，於每個星期天早上9點至11點，開班講授冷氣理論課程。當然非常有上進心的畢Sir亦有參加。

在1965年下半年，畢Sir被調往開利冷氣公司（IEL），一方面做繪圖工作，一方面也被調派到半島酒店做記錄繪圖。到了半島酒店在第3期房口裝修時期，畢Sir也承擔了地盤監督的工作。

在60年代尾，冷氣及空調行業在香港開始蓬勃。畢Sir開始有機會接觸銷售的工作。通過工作關係，認識了很多人及建立很多的關係。晚上還在工業學院修讀機械工程課程。從65年到74年的十年裡，畢Sir修讀完機械工程的證書課程，機械工程的高級證書課程和屋宇設備的認可證書課程。於69年中，從開利轉到廣東道的香港酒店工作，便開始了他超過35年的維修保養生涯，一直工作到74年。在偶然機會下，轉工到置地公司，當時置地公司未有特定維修及保養部門，畢Sir一手把維修及保養部建立起來。80年初，畢Sir再轉到新鴻基中心工作，直至05年退休為止。在正式退休前，還在香港興業服務了一年。

難忘往事

在置地工作的第一年，負責星光行的火牛更換工程，要在農曆新年的三天假期內完成。在更換火牛同一時間，香港酒店其中一組600H.P. 冷水機的馬達燒了，要把馬達安排重新捲線及更換。經過短短數日，日夜不停工作後，系統終於在農曆新年假期內回復正常，簡直是效率高超。

康樂大廈（今怡和大廈）於1972年入伙。在74年3月的一個晚上，海水泵房頂有出水現象，畢Sir馬上半夜去檢查及了解情況。發現原來水泵房的地基沈降導致地底海水喉管斷裂，於是連忙進行更換工程，引致康樂大廈的寫字樓整天沒有空調供應。但因為美心酒樓在晚上已接了一個宴會，不能退訂，在這情況下，需要在同一天時間內把其中一組水泵回復正常，使宴會可以如期進行。在同日的上午，太子行的1,000H.P.高壓(11KV)冷水機組的馬達燒了。當時大廈設計沒有考慮維修搬運的路線，在千方百計下，迅速地把馬達運送到黃浦船塢更換線圈。

貢獻良多

除了工作外，畢Sir對維修保養行業推動貢獻良多。以前大家對維修保養工作並不是很重視，在99年下半年通過千年蟲的問題，使一批有經驗的維修保養行政人員相聚在一起，因而在半年後成立了屋宇設備運行及維修行政人員學會（BSOMES）。畢Sir是該學會的創會會員及第二任會長。

另外在培訓方面，曾跟不同的商會及學會合作。在這數年間，推動及舉辦了不少在機電行業的訓練課程。其中在2003年，跟香港空調及冷凍商會，也曾經舉辦過一個全面性的空調應用及維修保養課程，大受歡迎。畢Sir希望這些課程能受到本地大學的認同，把它們成為本地大學課程的一部份。

在03年SARS大災難之前，畢Sir已經關注到SARS的問題，並聯同邱萬鴻博士等舉辦對SARS的研討會，當時勞永樂醫生也被邀請參予意見。因而促成了香港工程師學會在後期成立了SARS敢死隊，共同對抗SARS。

寄語行業

以前設計屋宇設備系統，要用人手計算及要有全面的認識，對專業人材培訓能打下良好的基礎。現在電腦及軟件非常普及，工程師只知道如何使用這些軟件，對內裏詳細的內容可能不求甚解，很多時只會用Rule Of Thumb。對日後系統出現毛病時，要找出問題根源的能力很有影響。

還有現時年青一代的工程師，一般工作態度不夠認真和承擔，所以除了技術方面的培訓外，對工作及人生的態度也要多加留意及學習。

退休安排

畢Sir可以說是退而不休，現在還很積極參與很多行業及學會相關的活動。除了在香港理工大學擔任兼職客席講師外，還和理工大學陳維田教授一起推動可持續免疫樓宇（Sustainable Immunized Building）的發展。有時間還會服務教會和參予行山活動，如果大家需要了解香港空調及冷凍行業的發展史，一定不能錯過找畢Sir提供資料。



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Asia's largest integrated resort, The Venetian Macao, is now officially open – ushering in a new chapter in the history of Macau. However, the expansion is on going.

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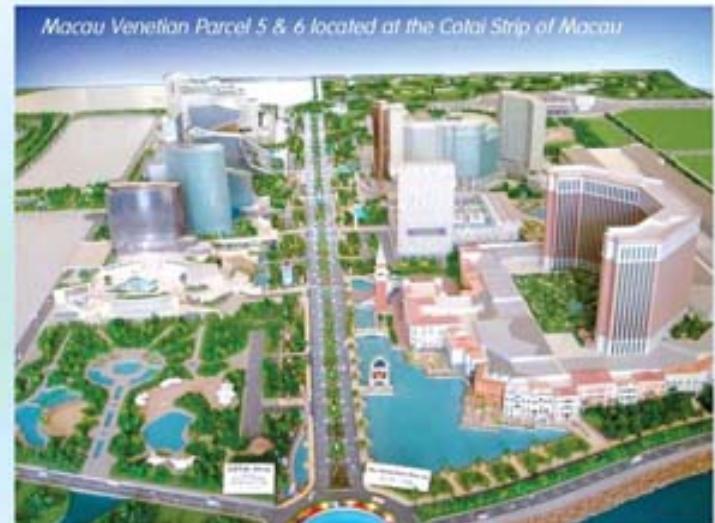
venues. Imitating the design concept of Venetian Hotel in Las Vegas in the U.S., The Venetian Macau makes perfect integration of Venice's elegance, which sets a new standard for complex luxury hotel resorts and extends Las Vegas' legend to Asia.

With a price tag of 2.4 billion U.S. dollars, the Italian Renaissance themed Venetian Macau is now the world's second largest building, with convention and exhibition halls, entertainment venues, indoor canals, shops, restaurants and a hotel with 3,000 all-suite guest rooms. Not to mention the 550,000 square-foot ground level casino floor, which itself is now the largest in the world, with 870 tables and over 3,400 slot machines.

The Grand Opening in August 2007 was only for the Venetian Parcel 1. The Venetian Parcel 5 & 6 will be coming soon. It will consist of Shangri-la Hotel, Sheraton Hotel and Ruiji Hongta Hotel with 500, 1,200, & 300 suites of rooms respectively as well as some other casinos, exhibition centers and entertainment facilities. Phase I of the Venetian Parcel 5 & 6 will be open to the public in 2008. Cooling capacities of Phase I and Phase II will be 32,000 tons and 12,000 tons respectively.

This project adopts several most advanced and energy efficient technologies in the market, such as Variable Primary Flow System, Earthwise System, etc. In addition, Chiller Plant Control System is used to integrate two 2,000 tons chillers into one series-series counter-flow 4,000 tons high efficient chillers. The chillers used R123 refrigerant with direct driven 3 stage compressor to achieve the excellent

efficiency. All these energy saving systems bring the owner a minimal initial investment and lower operation costs. It implicitly reduces the release of Carbon Dioxide to the atmosphere to help the Global Warming issue.



Project Summary

Project Site	Cotai Strip, Macau
Client	Las Vegas Sands Corporation
Architect & Engineer	Aedas Ltd.
E&M Consultant	Parsons Brinckerhoff (Asia) Ltd.
HVAC Contractor	Shinryo (Hong Kong) Ltd.
Chiller Supplier	Trane
Total Cooling Capacity	44,000 tons
Estimated Completion Date	End of 2008

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- * Package No. 6110-Sands Podium and Tower Trade for Podium, Venetian, Macau.
- * Science Park Building 4B, G/F
- * Renovation Works for 48-49/F American Club at Exchange Square
- * Proposed Alteration and Addition Works For New Yoga Studio at 5/F & 9/F., Langham Place.
- * Renovation Works for 26/F., Global Strategy Group Ltd. at Great Eagle Centre, Wan Chai.
- * Skyplaza North Office Tower, Hong Kong International Airport.
- * Alteration and Addition Works For 38/F., ICBC Tower, No. 3 Garden Road, Central
- * Alteration and Addition Works For 38/F. & 40/F., ICBC Tower, No. 3 Garden Road, Central
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技術探訪 三峽及長沙能源技術訪問團

二零零七年九月二十日下午，籌備已久的三峽及長沙能源技術訪問團，從九龍塘乘車出發到深圳機場，轉乘內陸航機到湖北宜昌市。這次的訪問團是由香港能源工程師學會（HKAEE）和美國能源工程師學會香港分會（AEE-HKC）一起主辦，香港空調及冷凍商會（ACRA）協辦，並得到香港註冊通風系統承建商協會（HKRVCA）、屋宇設置運行及維修行政人員學會（BSOMES）、亞洲智能建築學會（AIIB）、香港工程師學會—核子分部（HKIE-ND）及英國能源學會香港分會（EI-HKB）等機構的大力支持，全團總人數共25人。我們香港空調及冷凍商會也有永遠名譽會長連金水先生，主席羅威德先生，上屆會長陳家龍先生，理事余建浩先生和余達志先生隨團出發，可謂陣容鼎盛。

當天到達宜昌市已經很晚了，立刻安排各人入住酒店及休息。

第二天早上，早餐過後，馬上前往長江三峽大壩參觀。其實建造大壩最主要的目的就是防洪，其次才是發電及運輸。當大壩工程進行時，對當地的生態環境做成了很大破壞及傷害。現時所見到的三峽水位已上升了很多，以前看到的東西，現在有部份已經埋於水裏面。三峽大壩的建築非常宏偉，可以稱得上是本世紀的代表工程之一。



三峡工程鸟瞰图

今次透過中聯辦的協助，我們才可以進入三峽水力發電廠的主控制室參觀，可謂大開眼界。唯一有點失望的，就是未能更深入到達機房，去參觀發電機組的真面目。只能在模型室內拍照留念。





第三天（星期六）清晨開車前往湖南的名勝張家界遊覽，沿途看到的民生是非常之困苦，怪不得很多湖南的民工，都轉往廣東及上海找尋工作。經過漫長的車程，終於在下午到達張家界。於晚飯前還可以一遊素有「不上黃石寨，枉到張家界」之說的黃石寨。



第四天（星期日）早上，續遊張家界的天子山，風景非常秀麗，四周懸崖峭壁，奇松怪石無數，令人目不暇給。下午乘車往長沙。



第五天的行程非常緊密。早上先參觀遠大空調廠房及研發中心，她們的總裁張跃先生還親臨指導及講解，張先生還邀請我們為她們的商品在香港作分銷，對遠大空調產品有興趣的會員，可主動與她們聯絡。中國這幾年的經濟發展相當迅速，跟這些年青的CEO務實的工作態度很有關係。張先生還與我們一起在員工餐廳用膳，作風親民。下午到湖南大學之建築環境研究中心作學術交流，雙方都對建築環境作出了重點介紹及提出很多相關的問題，場面非常熱鬧，及後還參觀了超過一千年歷史的嶽麓書院，家傳戶曉的梁山伯與祝英台的故事，就是發生在這裏。



第六天一早出發，到離開長沙差不多一百公里的湘潭市，參觀當地一個水源熱泵工程項目。他們利用當地的天然環境，把河水引入湖區，再用湖水作散熱之用。對再生資源的運用及推動，國內也不比我們落後。回程時，順道參觀了毛主席的故居。

適逢當天是中秋節，大家於晚飯時，一起吃月餅以作慶祝。最精彩的莫過於大家可以近距離，在回航的飛機上觀賞到又圓又大的月亮。





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8 May 2007



Bowling Competition 2007

The Bowling Competition has been successfully completed on 8 May 2007. There are numbers of teams participate the event. After the excited competition. The championship for each segment are as follows:



Team Awards

- Champion : Young's Eng. Co. Ltd.
- 1st Runner Up: Southa Co. Ltd.
- 2nd Runner Up: Air Trade Centre Ltd.



Special Awards

Highest Single Game: Ms. Cindy Lee
(Newland Eng. Ltd. – Term 2)

Highest 3 Games Series: Mr. Au Kam Pui
(Young's Eng. Co. Ltd. – Term 1)

14 August 2007

Champion:
Jardine Engineering Corporation



Basketball Tournament 2007

Occupy a best team management can sure to win an engagement. The final winners are:



1st Runner Up:
Carrier Hong Kong Ltd.



2nd Runner Up:
Newland Engineering Ltd.

Technical Visit to Three Gorges Dam and Changsha

20-25 September 2007

As the co-organizer ACRA participants are given the opportunity to visit the latest development of new energy and renewable energy technologies through a 5½-day tour in Yichang, Hubei and Changsha,

Hunan, which include the Three Gorges Dam the largest hydro-electric power station in the world; Water Source Heat Pump Project and Broad Air Conditioning Factory who being the biggest absorption chiller manufacturer in the world.



The tour will also provide an opportunity for the participants to interflow with Hunan University.





58th Anniversary National Day Celebration Dinner

ACRA the championship again in Beer Competition



2 October 2007

Min-Soccer Competition 2007

9 October 2007

The winner photo with the guests after series of mini-soccer competition, which had been held between September and October 2007.

Champion :
Young's Engineering Company Limited

1st Runner Up:
Carrier Hong Kong Limited

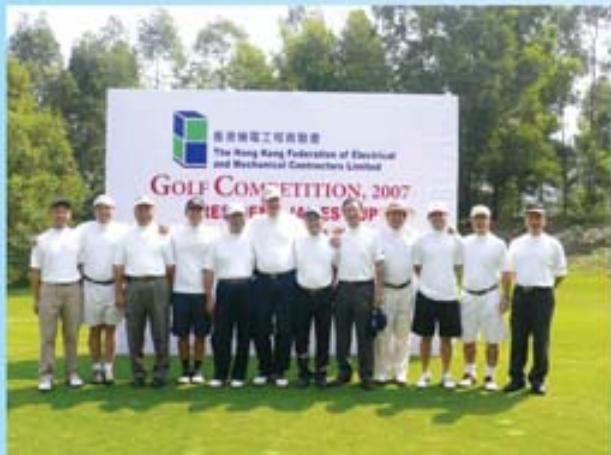
2nd Runner Up:
Analogue Technical Agencies Limited



FEMC Golf Competition 2007

25 October 2007

The ACRA Golf Team won the Champion of the President James Cup of the FEMC Golf Competition, 2007 held at 25 October 2007 at Mission Hills Golf Club.◦



MEMBER LIST

COMPANY NAME

		CONTACT NO.	TRADE
ATA Engineering Ltd.	安樂工程有限公司	2565 3339	E&M Contracting
Center Hong Kong Ltd.	開利香港有限公司	2694 5618	Air Conditioning Equipment Supplier
Rueger Engineering (Asia) Ltd.	高麗機電工程有限公司	2660 7333	Air Conditioning, Electrical, Fire Service, Plumbing & Drainage Installation
Newland Engineering Ltd.	新陸工程有限公司	2677 8620	Registered Contractor in ACM & Electrical Installation
Rydon Engineering Co., Ltd.	義電工程有限公司	2619 8811	E&M Contracting
Shinryo (Hong Kong) Ltd.	新麗工程有限公司	2231 8624	E&M Contracting
Shun Hing Electric Works & Engineering Co., Ltd.	信和電工工程有限公司	2419 5608	Trading and Engineering Contracting
The Jordine Engineering Corporation Ltd.	怡和機器有限公司	2607 4511	Contracting / Supplier / Building Automation / Energy Service
Trane Hong Kong	特靈香港	3128 4764	Air Conditioning Equipment Supplier
Winton Air Conditioning & Engineering (HK) Co., Ltd.	永恆冷氣工程有限公司	2764 5200	Contracting
Yok International (Northern Asia) Ltd.	約克國際(北亞)有限公司	2331 9286	Manufacture of Air Conditioning equipment
Young's Engineering Co., Ltd.	景福工程有限公司	2235 0900	Supply & Installation of Electrical & Mechanical Services, Routine Maintenance Work
Alliance Contracting Co., Ltd.	聯和承造有限公司	2691 9083	Contracting
Analogue Technical Agencies Ltd.	安樂科技有限公司	2565 3390	Air Conditioning Equipment Supplier "Hitachi", "Evapco", etc
Chevalier HK Ltd. - A/C Division	其士香港有限公司-冷氣部	2111 4811	Contracting
China Overseas Mechanical & Electrical Engineering Ltd.	中國海外機電工程有限公司	2625 7888	Contracting
Dolfin Airconditioning (Hong Kong) Ltd.	大金冷氣香港有限公司	2570 2786	Air Conditioning Equipment Supplier
Eldor Engineering Co., Ltd.	怡摩冷冻工程有限公司	2666 6622	Trading and Contracting
Hong Kong Thermo Industries Ltd.	香港冷凍器材有限公司	2674 6835	Trading and Contracting
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Kevin Engineering Co., Ltd.	樂信工程有限公司	2422 3110	HVAC Contracting E&M Engineering
K Thom Engineering Co., Ltd.	旗峰工程有限公司	2481 2918	Air Conditioning & Electrical Installation
Lucky Engineering Co., Ltd.	連通冷氣電業有限公司	2780 5285	E&M Contractor
Meco Engineering Ltd.	帝得工程有限公司	2691 8722	Engineering Contractor
Quad-Tech Engineering (HK) Co., Ltd.	高得工程有限公司	2573 1832	Contracting
Rydon (Holdings) Ltd.	夢和(集團)有限公司	2519 8881	Manufacturer for water cooling towers, water tank & pump, etc.
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Skyforce Engineering Ltd.	大科工程有限公司	2865 1020	Building Services Installation
Southa Co., Ltd.	南能有限公司	2663 7175	Supplier of A/C Equipment
Standard Refrigeration & Engineering Co., Ltd.	立德工程有限公司	2761 0871	Design, Supply, Installation and Maintenance of HVAC System
Takasegawa Thermal Engineering Co., Ltd.	高砂熱能工業株式會社	2520 2403	Contracting
Technicon Engineering Ltd.	得力橋工程有限公司	3105 1300	Building Services Design, Installation and Maintenance
Wong & Lee Contracting Ltd.	宏利營造有限公司	2689 1313	Air Conditioning & Electrical Installation
Wesco Air Conditioning Ltd.	威高冷氣工程有限公司	2464 3125	Contracting
A&R Engineering Co., Ltd.	奇樂工程有限公司	2408 2900	Contracting
Air Master International Ltd.	雅士國際空調有限公司	2764 0307	Manufacturing of Air Conditioning Equipment & Component
Air Trade Centre Ltd.	裕風先進有限公司	2667 7000	Contracting & Supplier of Air Conditioning product
Alpha Appliances Ltd.	第一電業有限公司	2529 7555	Authorized distributor of "General" air-conditioner
Amcorcel Asia Ltd.	阿美斯亞洲有限公司	2574 8335	Amadex™ Insulation manufacturer
Arnold & Co., Ltd.	安利有限公司	2607 9400	To Market and Distribute A/C and Engineering Equipment for Building Construction Industry of HK & China Market
Brightley Air Conditioning Ltd.	冠昇空調有限公司	2531 8559	Trading of HVAC Equipment
Billy Limited	穿雲科技有限公司	2511 3161	Supply & Install Window / Split Type & Packaged VRV System
Bun Kee (International) Ltd.	杉記國際有限公司	2148 9319	Wholesale
C.J.Wiring International Ltd.	東生電業有限公司	2599 9777	Supplier of air conditioning products - Dolfin-Japan, Kimiishi-Japan, Inobo-Japan, Taco-USA, etc
Chindight Creation Ltd.	華力創建有限公司	2618 7990	Contracting
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Crownfin Limited	冠財有限公司	2416 8066	Contracting / Supplier / Building Automation
Doh Chong Hong (Engineering) Ltd.	大昌貿易行工程有限公司	2708 3388	HVAC Installation, E&M Packaged Installation
Doh Fung Service	大慶空調服務	2636 0801	Contracting
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Eaton (HK) Co., Ltd.	香港恩索機電科技有限公司	3590 4656	Supply of HVAC
Enviro Tech Engineering Co., Ltd.	億德工程有限公司	2627 0088	Trading
Euro Airconditioning Ltd.	歐速空調有限公司	2525 0869	Supplier (Authorized Dealer of AC Products - Dolfin, Toyo, Valmatic, Honeywell MNG)
Exante Trading Co., Ltd.	精基貿易有限公司	2880 1881	Trading - Mechanical Equipment, Building Materials, Environmental Products
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Fungi E&M Engineering Co., Ltd.	馮氏機電工程有限公司	2682 7200	E&M Contracting
GTECH Services (Hong Kong) Ltd.	英國通用工程香港有限公司	2123 0888	Contracting
GELED LTD.	香港通用電器有限公司	2619 8883	Supplier
Gether Force Air-Conditioning Engineering Co., Ltd.	君力冷氣工程有限公司	2690 2022	Contracting
Gehrlich Enginee Ltd.	佳域工程有限公司	2693 3600	Contracting
Golden Phoenix Engineering Services Ltd.	金鳳凰工程服務有限公司	2117 9211	Contracting
Goodway Electrical Engineering Ltd.	佳壽電業有限公司	2405 0888	Authorized Distribution
Goodways International Ltd.	協進國際有限公司	2575 8770	Manufacturer's Representative
Gotop Engineering (HK) Ltd.	亮視工程有限公司	2491 3038	Electrical & Mechanical : HVAC Engineering
Hang Shun Engineering Co.	鄧氏恒順工程有限公司	2428 8640	Aluminum Cladding for Air Conditioning
Honest Peak International Ltd.	木峰國際有限公司	2780 3222	Supply / Shangling blow & fan for ventilation
H.W International Air-Conditioning Ltd.	明發冷氣有限公司	2556 8108	Contracting & Supplier
IS (Hong Kong) Limited	泰華國際空調有限公司	2996 8888	Manufacture of Air Conditioning Equipment
MS International Limited	恒豐工程(香港)有限公司	2992 0830	Supply & Install Central Hot Water Plant and Seawater Plant, Supply of Equipment
Kinden Corporation	鴻基國際有限公司	2681 8011	Manufacturer of "IMASU" ventilation product
King View Airconditioning Engineering Co., Ltd.	景盈空調工程有限公司	2568 6136	Building Services - E&M Works
Landis & Gyr Ltd.	蘭蒂斯有限公司	2706 2417	HVAC Contracting & Maintenance
Lee Tock Engineering Co., Ltd.	李德工程有限公司	2660 7855	Supply of Cold Meter, Chilled Water Energy
Link The Best Company Ltd.	必勝者香港有限公司	2305 3111	Registered Ventilation Contractor
McGuire Air-Conditioning Ltd.	麥基維爾空調有限公司	2566 4092	Supply Re-insulated Pipe Air Filter, Butterfly Valve, Electrostatic Precipitator, UV Sterilizer & Other Building Material
Mean Riberglass Engineering (Int'l) Ltd.	明生玻璃纖維工程(國際)有限公司	2693 6261	Split type A/C, Chilled Water Fan Coil Unit, Water Cooled Package & Split Type Water Source, Heat Pump Chiller Supplier
Moto Electric (HK) Ltd.	美的電器(香港)有限公司	2787 5712	Manufacturer of 'MESAN' watercooling tower, Distributor of Air-Conditioning Equipment
NAP Acoustics (Far East) Ltd.	NAP 靜學工程(遠東)有限公司	2694 4888	Supplier & Manufacturer of 'MD' Product
No. 1 Engineering & Material Supply Ltd.	第一工程及物料供應有限公司	2666 2866	Design, Supply, Installation of Acoustic Treatment and Vibration Control Products
Optech (International) Ltd.	鑫輝國際有限公司	2534 3671	Contracting Supplier
Peterson Engineering Ltd.	必微工程有限公司	2598 8088	Pump, Cooling Tower, VAV Box, Vibration Isolator, Duct Duct, Liquid Solids Separation Systems, Fibreglass Supplier
Practical Engineering (HK) Co., Ltd.	百利路工程(香港)有限公司	2565 0372	Contracting
Rising Engineering Ltd.	威信工程有限公司	2402 2772	Contracting / Supplier
Rivmax Air-Conditioning Co., Ltd.	萬聯空調有限公司	2695 6081	Authorized Distributor of Toshiba & Carrier product Registered Contractor
Rydon Asia Ltd.	和信亞洲有限公司	2698 3423	Distributor of HVAC product
Santy Trading Co., Ltd.	聖美貿易有限公司	2585 5121	Trading of 'SNRO' Cooling Tower, Fan Coil, AHU & Control
Shun Hing Ref. A/C Engineering Ltd.	順興電機有限公司	2573 4219	Specializing in trading Construction Insulation Material, such as Phenolic Foam, Fibreglass
Sing Kin Ltd.	順建有限公司	2587 2892	Design, Supply & Installation of Air Conditioning
Southa Engineering Limited	南能工程有限公司	2333 1518	Contracting
Super Mat (HK) Engineering Co., Ltd.	銳捷(香港)工程有限公司	2603 7241	Air Conditioning & Refrigeration Installation
Thermtech Building Products	泛達建築材料有限公司	2595 1122	Supplier / Distributor for Electrostatic Precipitator
Tom's Equipment Co., Ltd.	義麗設備有限公司	2756 3837	Contracting / Supplier for Weatherproof / Fire Resistant Materials to E&M Services
Union Manor Ltd.	聯明有限公司	2507 5539	Insulation Material Supplier
Vewco Building Services & Eng. Co., Ltd.	偉保工程有限公司	2571 2108	Contracting
Vita Engineering Co., Ltd.	威圖工程有限公司	2546 0610	Contracting
Wai Luen Air-Conditioning Ltd.	偉聯空調設備有限公司	2571 5382	Contracting
Welcome Oncho Denki Ltd.	偉基昌源有限公司	2690 9321	Trading of HVAC Equipments
Wo Kee Hong Ltd.	和記電業有限公司	2606 8516	Supplier of Electric Appliances (Brand Name : Mitsubishi Dolya, LG, GREE, TCL & Boryi, etc)
Water Asia Ltd.	華德亞洲有限公司	2522 3128	Supply & Manufacturing of full range of Ventilation Fans
Wyermann Co., Ltd.	威士文有限公司	2456 0198	Design, Supply & Manufacturing Air Conditioning Accessories
Yedland Engineering Ltd.	日島工程有限公司	2614 2213	Design, Supply & Installation and Maintenance of HVAC, Electrical and Fire Services System
		2502 2186	

