HKIE THE HONG KONG INSTITUTION OF ENGINEERS 香港工程師學會

Veneree Club 睿賢學社

2022 Engineering Exposition -

Engineering Life Challenges

Saturday 19 March 2022
9:00 am - 12:30 pm

at HKIE Headquarters,
9/F, Island Beverley, Causeway Bay
Hong Kong

Contents

Acknowledgements

The HKIE Veneree Club would like to express their gratitude to the following companies for their sponsorship to the Engineering Exposition.

ATAL Engineering Group
CLP Power Hong Kong Limited
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The Hong Kong and China Gas Company Limited
The Hongkong Electric Company Limited
Tsuen Lee Metals & Plastic Toys Company Limited

(Listed in alphabetic order)

Chairman's Message – Veneree Club

Veneree Club "睿賢學社" continues its good tradition of organizing Engineering Exposition for young engineers even under the impact of Covid-19. Instead of attending the talks physically, participants can also choose to join the seminar online. This hybrid mode provides more flexibility for our young engineers.

We continue to choose 'Engineering Life Challenges' as the theme to emphasize the engineering spirit needed to meet and overcome challenges in our career. While it is important to equip ourselves with necessary technical knowledge to solve ever changing engineering problems, equally we need positive energy for further advancement.

The Engineering Exposition aims to provide a platform for distinguished engineers to share their valuable experience in how they overcame obstacles and navigated through their career path. Their sharing would certainly help broaden the horizon and exposure of the young generation. Hope all participants could benefit from their messages.

Apart from this Engineering Exposition, Veneree Club as a society of retired engineers continues to organize monthly talks on various interesting topics so that our members could expand their knowledge as well as meet new and old friends.

On behalf of the Club, I would like to express my heartfelt gratitude to the sponsors who have provided us with much needed financial resources and enabled this meaningful activity to be carried out. Also, I am most grateful to all the speakers for sharing their valuable career and life experience. Of course, without the contribution of the organizing committee members, it would not be possible to hold this event. Finally, I would like to thank all the participants for joining this event. I wish you all a successful career.

Ir Philip KWONG Sze Fai
Chairman, Veneree Club
The Hong Kong Institution of Engineers
Session 2021/2022

Engineering Exposition 2022 Organizing Chairman's Message

HKIE Veneree Club has the pleasure to continue to hold the Engineering Exposition for the eighth year following a suspension in the past two years due to the pandemic. We trust that many young engineers benefitted from the talks and experience sharing given by our speakers in the past Expositions.

This year, again we have invited five distinguished engineers and a HKIE Outstanding Young Engineer awardee to share their valuable experience with fellow engineers. Though coming from difference fields of engineering, they all have a strong spirit to pursue excellence that has enabled them to achieve so much in their career life. Through the talks and dialogue with them in the breakout session, participants could broaden their mind and learn from more experienced members, which would benefit their future development.

The world keeps on changing. Engineers bear the mission to further improve our living environment. Every step in carrying out that mission, however, how small it appears at the time, is significant.

I would like to take this opportunity to express my heartfelt thanks to our sponsors, members of the Organizing Committee and those who have contributed to the success of EngExpo 2022.

Ir Simon CHUNG Fuk Wai
Organizing Committee Chairman
Engineering Exposition 2022

Engineering Exposition 2022 Organizing Committee

Organizing Committee Chairman:	Ir Simon CHUNG Fuk Wai
Members:	Ir David CHENG
	Ir Simon CHIANG King Wah
	Ir Heinz CHIU
	Ir Anthony KWAN Lok Fong
	Ir Philip KWONG Sze Fai
	Ir Allan POON
	Ir Stephen LEE Ming Ching
	Ir William LI Wai Lim
	Mr Martin SIU Wai Kwong
	Ir Peter TSANG Kang Ho Peter
Advisor:	Ir Dr CHAN Fuk Cheung

Past Engineering Exposition Events

The past Engineering Exposition Events is listed below:

2013 held on 11 May 2013 at Novotel Century HK Hotel
(jointly organised with HKIE Young Members Committee)
Speakers were: Ir CHEUNG Shu Wing, Ir Dr CHOI Yu Leuk, Ir Dr LAU Ching Kwong, Ir Gregory LO Chun Hung, Ir John SZE Tak Wei, Mr WONG Tak Ko, Ir Dr CHAN Fuk Cheung, Ir CHOW Che King, Ir LAM Hing Cheung, Ir Dr Wanbil LEE, Ir Ian ROBERTSON, Ir Jolly WONG CHun Kau

2014 held on 10 May 2014 at Regal Hong Kong Hotel
(jointly organised with HKIE Young Members Committee)
Speakers were: Ir Dr James LAU Chi-wang, Ir Dr Otto POON Lok-to, Ir Benny WONG Yiu-Kam, Ir Prof CHAN Ching-Chuen, Ir Dr CHENG Hon-Kwan, Ir Dr George SZE Lai-wah

2015 held on 30 May 2015 at HKPolyU Chiang Chen Studio Theatre
Speakers were: Ir Dr John LUK, Ir Victor NG, Ir Louis SZETO Ir CHOW Tang Fai, Ir HO Chi Shing, Ir MA Lee Tak

2016 held on 30 Apr 2016 at HKPolyU Chiang Chen Studio Theatre
Speakers were: Ir Prof Daniel LAI, Ir Edmund LEUNG, Ir Greg WONG Ir HO Wing Ip, Ir YING Tsie Cheong, Ir YUEN Sui See

2017 held on 8 Apr 2017 at HKPolyU Chiang Chen Studio Theatre
Speakers were: Ir Allan CHAN Sau Kit, Ir IP Pak Nin, Ir WONG Chi Kwong Ir CHAN Chi CHiu, Ir Patrick NG Ying Piu, Ir Prof Joshua SL WONG

2018 held on 21 Apr 2018 at HKPolyU Chiang Chen Studio Theatre
Speakers were: Ir John SV CHAI, Ir Raymond LIN Kam Siu, Ir WONG Wai Ho Ir LEE Wan Lik, Ir Dr Michael YH Li, Ir Stanley SIU Hiu Fai

2019 held on 13 Apr 2019 at HKPolyU Chiang Chen Studio Theatre
Speakers were: Ir Dr CHAN Chun Leung, Ir Regis CHEE Lap Gee, Ir HON Chi Keung Ir Howard LOK Tat Hong, Ir TAI Tak Him, Ir Peter WONG Kwok Keung

(Due to COVID-19, no Engineering Exposition Events for 2020 and 2021 were held.)

Ir Harry LAI Hon Chung

B Sc (Electrical Engineering), M Sc (Environmental Management) CEng, FHKIE, FIET, MIMechE

Discipline: Electrical, Mechanical

Ir LAI is the former Deputy Director of the Electrical and Mechanical Services Department responsible for overseeing enforcement of regulatory functions and implementation of various initiatives on electrical, mechanical, gas and railway safety as well as energy efficiency and conservation. He is currently serving as the Department's Principal Advisor after his retirement from the civil services in 2019.

With over 40 years of professional experience in electrical and mechanical engineering fields, Ir LAI has spent most of his career life in areas related to regulation of energy supply safety and security as well as promotion of energy efficiency and renewable energy. He is one of the few electricity market reform and nuclear energy experts in the Government. Ir LAI has also represented Hong Kong to attend International Atomic Energy Agency (IAEA) as well as Asia-Pacific Economic Cooperation (APEC) Energy Working Group and Energy Ministers' meetings

Ir LAI has served as Chairman of the HKIE Nuclear Division, Secretary of the HKIE Electrical Disciplinary Advisory Panel as well as Member of the HKIE Fellowship Committee.

Motto

Best application and good use of professional knowledge, experience and expertise acquired in making meaningful contributions to the society and international community.

Case 1

After the fire incidents at hawker stalls at Fa Yuen Street in early 2010's, we had to work with other departments/parties to ensure that the reconstruction of these stalls was in line with latest electrical safety standards. In addition to assuming the role of safety regulator, we had taken one step further to liaise with electrical trade unions and contractor associations for providing volunteer services to assist these stall owners. With the concerted efforts of all parties involved, the affected stall owners were able to reconstruct their stalls in compliance with relevant safety standards and resume their normal business within shortest possible time.

Learning from the successful collaboration experience in the past, we are now taking the lead to organize voluntary social services to the community, in particular for underprivileged elderlies, by the electrical trade through joint effort of volunteers' teams from the Department, trade worker unions, contractor associations and social welfare organizations.

Case 2

In enforcing new electrical product safety regulation introduced in mid-1990's, we had established collaboration arrangements with the Mainland authorities. Through these arrangements, we were able to exchange updated information with the Mainland authorities once non-compliant products were identified in the local market so as to address such problems from the sources in case these products were originated from the Mainland. Regional collaboration in this respect had proved to be effective in enhancing electrical product safety and safeguarding consumer interests.

The good concept of regional collaboration was extended to international arena and also to a wider scope through our participation in the APEC Energy Working Group as well as Energy Ministers' meetings. This served as an important platform for energy policy dialogue, information sharing and cooperation among the 21 economies under APEC. It also facilitated Hong Kong, China to demonstrate its capability and expertise through hosting relevant meetings and conducting different projects on energy-related subjects.

Engineering Life Challenges

With the privilege of working in the Government for almost the whole of my career life, I have had the excellent opportunities of involvement and participation in a wide range of electrical and mechanical engineering works, some of which were unique in nature and possibly first-of-its-kind in the territory. Facing the challenges of taking up new tasks and unfolding new chapters of the career path, it is imperative to effectively apply and build upon already acquired knowledge and experience, but at the same time be proactive in accepting innovative ideas, be prepared to depart from one's comfort zones and learn from others including those in different fields of expertise.

As I took up the task of promoting the works of my Department as well as disseminating E&M safety messages to the community in the 1990's when internet and websites were still uncommon, I managed to organize a series of roving exhibitions in different shopping malls despite having no similar experience before. With the assistance of PR consultants engaged, I coordinated with relevant internal divisions involved as well as liaised with different external parties, including community and trade leaders, for soliciting their support and assistance. Following the success of organizing such activities, we took a step further by inviting trade associations and stakeholder groups to jointly collaborate with us in organizing safety carnivals at different community districts, which ended up as a major annual event of the E&M trade that was organized for over a decade since then. The knowledge and experience shared with and gained from different internal/external partners participating in these events had proved to be invaluable in enriching my career life.

The Fukushima nuclear incident in Japan that occurred in 2011 had brought an unforgettable but challenging task to me and my team. We were responsible for providing technical support in the implementation of local contingency plan which was activated in response to the said incident due to substantial flow of passengers and goods from Japan during that time. Our team had to work round-the-clock for over a month after the incident occurred to closely monitor the latest developments with a view to providing appropriate technical advice to the Government, despite the lack of timely information initially while most of the available information in early stage were in Japanese. We managed to overcome such difficulties and surmount all obstacles by exercising excellent team works in careful planning and effective utilization of available resources and information, including soliciting the support of local experts from academia and industry. Our subsequent participation in the IAEA international meeting on the subject was an eye-opening experience for the appreciation of global cooperation in addressing such complicated problems.

Ir Ivy LEUNG Yick Laam

MEng ACGI, CEng, MIMechE, MHKIE

Disciplines: Mechanical Engineering

Ir Ivy LEUNG is an electrical and mechanical engineer from the Electrical and Mechanical Services Department (EMSD), currently under secondment to the Drainage Services Department (DSD) for public works projects. With solid working experience in contractors, consultancy and government, Ir LEUNG is all-rounded in managing engineering projects from planning and design, construction and installation, to operation and maintenance. She is committed to applying sustainable and innovative ideas and designs to enhance the facility efficiency of various environmental engineering projects to attain sustainability.

Ir LEUNG obtained her Master's Degree in Mechanical Engineering from Imperial College London. She won the Third Prize in the HKIE Trainee of the Year Award in 2012. She served the HKIE as the Chairlady of the President's Protégés Club in 2015 and Executive Observer in 2016. She was also the Vice-Chairperson of the activity sub-committee at the Institution of Mechanical Engineers (Hong Kong Branch) in 2016. Recently, she was awarded the Young Engineer of the Year Award 2021 by the HKIE.

Motto

"There are no limitations to the mind except those we acknowledge."
- Napoleon Hill

Case 1

Being one of the key engineers for the Integrated Waste Management Facility (IWMF) project, I was responsible for preparing the reference design and specification. Since the IWMF will be the first waste to energy plant for municipal waste in Hong Kong, with no precedent as reference, I had to learn the system design from scratch with experts in Europe and design to suit the waste characteristics in Hong Kong. As the framework was developed, I further modified the system arrangement to allow higher operational

flexibility and reliability which can achieve better energy efficiency.

To evaluate the design practicability, it would be down to the operation and maintenance stage. From my experience in managing the operation of sewage treatment works, there could be unexpected scenarios that we have to face in real life. It is another challenge to tackle the emergency and offer solutions to maintain a stable operation.

It is an ongoing learning process from these practical experiences. We create, we learn from experience and we can do better.

Case 2

I led teams of young engineers to organize overseas volunteering delegations to support the poverty in need. We built a brick house for a family in Cambodia so that they do not need to stay in the slum anymore, we built a toilet for villagers in Nepal to improve the local hygiene, we refurbished the walls of a house to enhance the living quality of a poor family in Armenia, and we repainted a historical temple in Sri Lanka serving the local community.
Young talents should not just limit themselves in their working scope, all these little helping hands matter to the ones in need.

Engineering Life Challenges

I believe the excitement in engineering is about transforming our concepts into reality, that is where our creativity got ignited. The process is full of challenges and unknowns. It is not only about the technical design, but also the environmental and social impacts. As the global technology development is expediting fastly, we engineers need to keep learning and exploring. To equip myself with solid skills and have a wider understanding of the industry, I took up roles in contractor, consultancy firms and clients step by step at different stages in my career.

Engineering projects involve many parties and stakeholders which we need to learn how to communicate for smoother collaboration. By stepping into different shoes across the industry, I have a better understanding from different perspectives in each role so that we could respect and support

each other with mutual trust, especially when more projects are adopting NEC contracts. Effectively the programmes speed up, the teams have better project and cost management which lead to win-win results.

As a rising trend in this generation, it is our obligation to lift up sustainability in engineering projects in order to minimise environmental impact by humankind. I believe there is a lot more that we can do on this topic with the support of innovations in this digital era. Fellow young engineers, spend more time exploring the city, then start thinking about 'what if', and tell me what enhancements you are looking for to make it a better community. You may begin with something little, but you never know where these little things would lead you to. There is a bright future if you start to dream big and take a step forward.

Ir Timothy SUEN

BSc (Hons) Arch Engineering, Civil Engineering Department, University of Leeds, 1978
MBA, Asia International Open University, October 1993
MICE, 1987; MHKIE, 1988; Member, Association for Project Management, November 1998-2001; FHKIE, March 2005; FICE, July 2011; Arup Fellow, 2013

Discipline: Civil Engineering

Professional Project Manager or Multidisciplinary Design Manager of a Consultant on major transport or industrial projects. Hands-on knowledge and experience on projects from prefeasibility, feasibility & planning, preliminary & detailed design, construction administration & supervision stage. Ir SUEN has worked in various cities including Beijing, Shanghai, Shenzhen, Baoding, Bangkok, Manila and Hanoi but mostly in Hong Kong. For the last 10 years, Ir Suen has engaged in procurement strategy, economic and financial assessment of major transport projects in the region.

Ir SUEN have been involved in all the existing railway lines of Hong Kong and was appointed as Arup Fellow in 2013, the highest honour Arup bestows in recognizing the quality of my work.

Motto
Always provide innovative ideas with solutions focusing on value for money to clients and collaborators with professionalism for the betterment of the general public and the future generation.

Case 1
After the Airport Railway, I have exported my railway experience gained in HK on railway project in Bangkok. The approximately 20km underground Blue Line North & South sections are two large Design & Build packages. I was the design bid manager working with a JV on the bids. The Arup multidisciplinary team consisted of experts in alignment, fire engineering, tunnel ventilation,

tunnelling and top-down construction apart from Station Architects, Civil & Structural, Geotechnical and Building Service engineers. The JV won the North section with 10km of TBM tunnel and 9 stations. Unlike traditional underground railway works, at the time, where TBM works and Station works were clearly demarcated with interfaces The method and sequence of the TBM and the top-down station were totally integrated where TBMs were launch within the station and either bore through the station before the station top-down or the TBMs were pulled through the constructed stations. The works have been completed on time and within budget.

Case 2

The ETST Station & Tunnels was part of the East Rail Extension project in the late 90s. I was the PM for the design consultancy and later "The Engineer" for the 3 packages of construction works. There were at the peak, a total of 160 design staff and RSS under my leadership. For construction works in TST, there were many environmental and social constraints with constructability challenges such as noise, TTM and utility diversions etc.. The underground station involved soil and rock excavation, the cut & cover construction was next to the sea beneath Salisbury road and a network of pedestrian subway construction along Mody road, that close to existing buildings. Delay recovering measures (DRM) had been adopted rather than EOT for the contracts. Ex-KCRC and Arup team had to deal with many VOs and potential claims. The challenging works had been completed on time with the final account agreed before opening of the line.

Engineering Life Challenges

1.During the early 90s, I had been giving the choice to join the Industrial engineering team as PM for Mainland projects or railway engineering team as a design team member for the MTR projects in Arup. I had been asked to attend an important meeting with the respective clients at the same time by two seniors. I had to make a choice and assess what is best for me. I can move up the ladder faster with better pay within the industrial team but I had attended the railway meeting because I like the railway design works more. A career must be enjoyable to be successful. The take-away is not to calculate too much the outcome of immediate return in your career development, instead focus on enjoyable works and people for long term

career development.

2.I have taken RSE interview in early 90s and failed. The interviewers had asked me to come back after 8 months. I was then very busy in the Hong Kong MTR Lantau lines and had not taken my 2nd chance seriously and forgot the whole thing. I would have been more effective in influencing others when discussing any modifications and deviations from the existing regulations if I were a RSE. The take-away is don't overlook the opportunity of obtaining appropriate qualifications during your career development since it should be part of career development.

3.Occasionally, I am asked to give preliminary comments and opinion on potential disagreement by external parties. Those issues are usually complex and with a lot of dynamics between stakeholders. I always remind myself that, although it is important to understand the context and the interests of the stakeholders, those are secondary issues. It is my professional judgement that is treasured by others and should not be distracted by other issues. I need to aware of regulations involving numbers, it is the purpose and meaning behind the numbers and the quality approach of achieving those numbers that matters. I uphold my own professional judgement and express my views firmly accounting for matters relating to transparency, fairness, sustainability, climate change and digitalization.

Ir Dr HO Pui Tak

B.Sc.(Eng), M.Phil. and Ph.D. (HKU), FHKIE, FBCS, CITP

Discipline: CAI, Electronics, INF

With multi-disciplinary research expertise in power electronics, power system studies and computer control automation, I started and advanced my career in university IT developments, strategic planning, and organization management leadership at HKU. I contributed to continuous advancements of the vast IT facilities and services for supporting all aspects of the University. Strategic initiatives worth mentioning included Portal and Electronic Services Delivery, ERP applications, High-Performance/ Grid/ AI Computing, Bioinformatics facilities, e-Learning/online-examination systems, Campus Network/Internet/WiFi Infrastructure, cybersecurity, cloud and mobile solutions, ITIL Services Management practices, Quality Management, and digital transformation drives.

Ir Dr HO had been instrumental in the development initiatives of HARNET, HKIRC, JUPAS computerization; and served as HKIE INF discipline representative, BCS(HKS) Chairman, HKNGIS Chairman, Honorary Vice-President of Shenzhen Computer User Association, etc.

Motto
「學而不思則罔，思而不學則殆」

Case 1
Before most people could have Internet access, I designed and supervised the development of the "JUPAS program choice re-prioritization" solution based on Optical Mark Reader (OMR) forms. The success of the solution operations attributed to the proper design in the equipment capacity, logistic planning and handling the students' submission queue and correctness assurance against potential data errors due to equipment failure and/ or wrong handling in the operations. Hence, apart from engineering the functions of the equipment setup and software, it was also a design with diversified considerations that involved acceptable equipment duty-cycle

and failure contingency handling, throughput design based on estimation of the public transport capacity and grouping/scheduling of the arrival of students' submissions, audit trail design, and contingency plans for potential problems and unforeseen circumstances.

This solution had been adopted as the standard process until a web-based system, now known to DSE students, was developed with the above design considerations.

Case 2

Supercomputers of different architectures and network topologies were available in market 30 years ago. But they were incompatible between each other. I worked on setting up a supercomputer (High Performance Computing, or HPC system) based on the scalable parallel architecture at HKU in 1993. This proved to be a very right decision because of the least system complexity, readiness of quick technology advancement, and good market economy in subsequent development, and more importantly adaptable to broad areas of research studies that could be tackled by scalable parallel programming models. This development was instrumental in our HPC development path in Hong Kong. With this development, we have nurtured many first-generation researchers in Hong Kong and China who possess HPC expertise.

In last 3 decades, power of HPC systems has been growing along the line of 10 times in every 4 years. I have just formulated a plan for HKU's future HPC systems and found that their energy needs will be several times more than most people would anticipate.

Engineering Life Challenges

1. Mastering and applying the necessary and continuous evolving technology know-hows in the design and engineering the fit-for-purpose development and/or problem-solving solutions are the challenges being faced regularly. I had been able to meet such challenges satisfactorily through self-motivated studies for acquiring new knowledges in the disciplines related to work and participating in relevant learned society CPD activities to learn from peers, in addition to my own experience in work. Supposedly, my experience perspectives could be similar to other young and experienced engineers.

2. In the course of my career advancement, I realized that applying HKIE's Rules of Conduct relating to the responsibilities to the profession, colleagues, employers/clients, and to the public in a balanced and comprehensive way would be a great challenge. In many circumstances, interests of the employers vs colleagues vs public in relation to the profession could stand in conflicting/ opposite positions. Devising a scheme that could be acceptable to most, if not all, requires excellent communications to align the common interests for consensus and resolutions. Comprehensive background studies and listening to understand views from perspectives of different stakeholders, with HKIE's Rules of Conduct in mind, would be a necessary start towards the way of success.

3. We are in a digital era of Industry 4.0 that is leading us to the metaverse lifestyle in the not-so-distant future. Professional practices of INF discipline as well as those of all other engineering disciplines are changing quickly and continuously. Keeping up to date in the adoption of emerging solutions and technology innovations in engineering practices to avoid being sidelined along the trend of digital transformation has become a recent challenge. Acquiring broad range of basic knowledges of the digital age, say mobile and cloud, modern social media, IoT, blockchain, data analytics and big data, deep learning and AI, etc. has become a necessity and the new engineering challenge for me and, in my view, also for other young and experienced engineers.

Ir Duncan WONG

MBA, CEng, FHKIE, FIGEM

Disciplines: Mechanical, Gas

Ir WONG has four decades of experience in the gas industry and is currently the General Manager – Marketing & Sales of The Hong Kong and China Gas Company Limited (Towngas), Hong Kong's sole piped-gas supplier.

Ir WONG has served The Hong Kong Institution of Engineers (HKIE) as a Council Member, an Executive Observer and also the Chairman of its Gas and Energy Division and Public Relations Committee for a number of years. He is currently an Advisor to Our Hong Kong Foundation and a member of the Food Business and Related Services Task Force under the HKSAR Government's Business Facilitation Advisory Committee.

Motto

Strong interpersonal and business skills are just as important as a solid technical background in one's career as an engineer.

Case 1

As the key energy supplier of Disneyland Hong Kong (including, inter alia, catering as well as steam and hot water supply to its hotels), I worked closely with Disney's in-house engineering team (Imagineering) in the lead-up to its opening in 2006.

One of the most challenging aspects of the project was to develop a special effect for its Jungle Cruise Ride which featured a unique feature known as "Fire on Water". Together with Disney's engineers, we set up a test lab in Guangzhou to test out the concept and the ride turned out to be a success. Out-of-the-box thinking as well as working effectively in a multi-cultural team both played a role in its success.

Case 2

I had the honour of serving as the President of the Institution of Gas Engineers and Managers (IGEM) in 2020/21. IGEM is the professional engineering institution for gas and a member of Engineering Council UK. I am the second President from the Far East in the history of IGEM.

My Presidency was a challenging one because of the COVID-19 pandemic. Among other things, I oversaw the transformation of IGEM in ensuring that it continues to deliver value-added services to its members as well as spearheading the development of a hydrogen blueprint for the gas industry at large. I was able to overcome these challenges through working across time zones as well as maintaining a strong curiosity and a hunger to learn despite not having worked in the U.K.'s gas sector before.

Engineering Life Challenges

Engineering is both an art and a science and hard skills will only take you so far.

To give an example, I led the team which was responsible for supplying gas to Hong Kong's new Chek Lak Kok airport in 1995. Time is of the essence as the project must be completed before the new airport opens. To make that happen, we held monthly meetings with the then Provisional Airport Authority over the course of three years which involved many negotiations over engineering as well as non-engineering matters.

The experience taught me that apart from having a solid technical background, a good engineer must also possess strong interpersonal skills in order to navigate the many challenges that he or she would face day in and day out at work.

In addition, a good engineer must have integrity as reputation is one's greatest asset.

I also cannot stress the importance of teamwork more. No single engineer can make a project happen on his or her own. Recognising the strength of the whole and harnessing it (whether as the team leader or a team member) is pivotal to any project's success.

Ir Arthur YUNG

BSc MSc DIC, FHKIE, FICE, FIStructE,
Authorised Person, Registered Structural Engineer, Registered Geotechnical Engineer

Disciplines: Building, Civil, Structural

As a Structural Engineer, IrYUNG had spent my career in design, supervision and project management of building projects in private and public sectors. Ir Yung became the Construction Manager of a 20 Blocks real estate in Tsuen Wan after qualified, followed by managing the urban renewal projects as a Project Manager in Land Development Corporation for another 9 years. Ir YUNG established my own company in 2003 , working as an engineering consultant under the Buildings Ordinance to design, supervise and administer building works, and geotechnical works. Ir YUNG had also served the HKIE Building and Civil Divisons and acted a a Council member.

Motto
Honesty and Modesty are the motto which enable me still standing here today

Case 1

After gaining my chartered engineer membership, I became the Construction Manager on behalf of the Client in a large scaled development in Tsuen Wan, who was responsible for supervision and coordination of all building works, including structural, site formation, foundation, architectural and MEP works which I was unfamiliar except structure ones. I needed to coordinate and supervise Main and Sub contractors as well. Being a fresh qualified engineer, I was new to all these works and worried but I knew I needed to learn from my more experienced site staff, consultants and Contractors to fulfil my duties. Initially, I could not mingle with my site staff as they were all more experienced than me., but my motto, honesty and modesty helped me to communicate with these people and share their experience, and continuous learning through courses and incidents enabled me to administer the works in all fields, as well as forming a high spirit working team . The project finally completed on time and within budget and good quality

Case 2

I started my own business as an engineering consultant in 2002 after an unexpected company restructure. I wanted to pursue my career as a project manager for Client, but the whole economic situation at that time was very bad especially SARS happened shortly after Though practicing as a Client for over 15 years, I could not get a job. However my continuous professional development and experience in the past reminded me I can still working in other fields, so I established a consulting engineering practice, doing some works that I have not been doing for the past decade and our company start growing and become a medium size local practice nowadays.

Engineering Life Challenges

Structural engineer is not just as simple as a designer. A competent structural engineer is required to communicate with the public and share their concern to deliver the project successfully. I was responsible for the demolition of many URA projects, which involved the relocation of hawkers stalls, bus stops, and changed the livelihood of people living nearby. All of these created public grievances and complaints in terms of hygiene, security, environment, like noise and dust and safety, and sometimes addressed through public media, Government Departments, District Councils etc. which would affect the progress As the engineer in charge, of course we needed to well plan the demolition process, prepare submissions to Authorities and supervise the works but another important task is to coordinate with the local residents and leading figures, explain to them the extent of works through public meetings and individual dialogues, the precaution and mitigation measures to ease their concerns such that the disturbance to them is minimal., and sometimes the beautiful plan after development During demolition, apart from the normal role, we also played the role of mediator to resolve any complaints raised by the local community, and soothe their complaints. In many cases, confrontation always happened to draw public attention, especially media and we needed to use our social skill with modesty to convince them to retreat, and minimize the impact. All this are new to structural engineer, but you need it to deliver your job.

The above story tells a successful engineer on top of their engineering knowledge, have to be multi skilled and possess a good communication and social skill in this challenging society.

HKIE Veneree Club Activities

The following is a list of activities that Veneree Club organised during Apr 2019 to Feb 2022/. In the third Wednesday morning of each month, Monthly Talk by guest speakers giving interesting topics is normally held.

Monthly Talks

17 Apr 2019 Lifecycle Building Information Modeling-Asset Management (BIM-AM) System for Building Operation & Manitenance
15 May 2019 中風病的中醫治療及預防
19 Jun 2019 如何評估及預防冠心病
17 Jul 2019 港島 仔及東區的發展歷史
21 Aug 2019 Smart ageing : from ageless employment to gerontechnology
18 Sep 2019 The prevention and treatment of colon cancer
16 Oct 2019 Capture of grey tones in B&W landscape and portrait photography
20 Nov 2019 Psychological Approach to Manage Retirement Life
19 Dec 2019 Ethics and Professionalism of Engineers

15 Jan 2020 Water Seepages Disputes cum Transformation from an engineer to a barrister
Feb-Sep 2020 Talk suspended
21 Oct 2020 沙漠追踪
18 Nov 2020 The Golden Age: Age Strong and Healthy
16 Dec 2020 除了工作，「我」還有什麼？預防退休情緒問題小錦囊

20 Jan 2021 家居防火安全注意事宜，安全設備
24 Feb 2021 風水閒談 – 家居風水與人的關係
17 Mar 2021 Current Management of Benign Prostatic Hyperplasia良性前列腺增生
21 Apr 2021 退休開心法
26 May 2021 對抗疫情壓力的心理錦囊
16 Jun 2021 遺囑：度身訂造的承傳安排
21 Jul 2021 清末民初的香港知識分子與近代中國
18 Aug 2021 中風病的中醫防治
15 Sep 2021 馬鞍山鐵礦場的故事
20 Oct 2021 認識投資理論、尋找贏錢方程式
17 Nov 2021 How mental impairments may affect us – from legal and psychiatric point of views?
15 Dec 2021 Common Eye Problems in Seniors.

19 Jan 2022 Hong Kong Palace Museum故宮博物館
16 Feb 2022 香港本地旅遊勝景介紹

10th Anniversay of the HKIE Veneree Club

The HKIE Veneree Club was first established on 18 Jan 2012 with the idea of HKIE being a home for engineers for life, to serve its members and to reunite retired members.

2012: Inauguration Celebration

2013: Anniversary Celebration

2014: 2nd Anniversary Celebration

2015: 3rd Anniversary Celebration

2016: 4th Anniversary Celebration

2017: 5th Anniversary Celebration

2018: 6th Anniversary Celebration

2019: 7th Anniversary Celebration

2020: 8th Anniversary Celebration

Dur to COVID-19, there was no anniversary celebration in 2021 and 2022.

Engineering Exposition 2022 Programme

09:05 – 09:10	Opening: Oganising Committee Chairman: Ir Simon CHUNG
09:10 – 10:40	First Session (Speaker presentation and Panel Discussion)
10:40 – 10:50	Session Break
10:50 – 12:20	Second Session (Speaker presentation and Panel Discussion)
12:20 – 12:30	Closing: Veneree Club Chairman: Ir Philip KWONG

First Session
Speakers:
Ir Harry LAI
Ir Ivy LEUNG
Ir Timothy SUEN

Second Session
Speakers:
Ir Dr PT HO
Ir Duncan WONG
Ir Arthur YUNG

Engineering Exposition is
Organised by HKIE Veneree Club