



**MILES Alumni Association of  
The Hong Kong Polytechnic University <sup>SM</sup>**  
香港理工大學 工業及系統工程校友會

# **NEWSLETTER**

**6<sup>th</sup> Issue**

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## Chairman's Message

### MILESAA Annual Report 2011-2012



I have much pleasure in presenting this annual report for my second term as Chairman of the MILES Alumni Association (MILESAA) of The Hong Kong Polytechnic University (PolyU). The past year was eventful and fruitful. Working closely with the Executive Committee members, we have

continuously exerted our effort toward developing a close network and relationship with the students, our fellow alumni, and the Department of Industrial and Systems Engineering (ISE). MILESAA also organized and participated in a wide range of alumni activities. Significant achievements in 2011–2012 are summarized as follows:

#### 1. **Membership**

As of 18 December 2012, MILESAA had a total of 521 ordinary and student members.

#### 2. **Activities**

We organized a wide range of alumni activities for the alumni and students, and actively participated in co-organizing various activities with different engineering associations in 2011-2012.

##### (i) Activities organized/co-organized by MILESAA

1. Information Technology Forum for Hong Kong Industries 2012
  2. Technical Seminar on Product Testing and Certification
  3. Technical Seminar on Manufacturing Improvement and Optimization
  4. Sai Kung Boat Trip
  5. Innovation Technology 2012 – “Creating New Opportunities through Innovation”
  6. Technical Seminar on Precision Manufacturing of Critical Components and Advanced Products
  7. 2012 Homecoming Dinner - for MPM, PIE, MFG, and ISE Alumni
  8. Technical visit to Ocean Park
  9. ISE MILES Alumni Association Singing Contest 2012
  10. Multimedia Technology Forum 2012 – “Mobile Media Make the Future”
- ##### (ii) Activities supported by MILESAA
11. Technical Seminar on the Standard for Aerospace Quality Management System (AS9100)
  12. Technical Seminar on Caliper Checker and Flow Calibration
  13. (IE)<sup>3</sup>: Industrial Engineering • Innovation, Excellence • Industry Elites Annual Symposium 2012
  14. Forum on Learning from the Best Knowledge Enterprises & Hong Kong MAKE Award Presentation Ceremony 2012

#### 3. **Scholarship**

MILESAA received a generous donation of HK\$50,000 for a scholarship programme from Mr Eddie Leung, Chairman of Paper Communication Exhibition Holdings Ltd. The scholarship will be used to support current full-time undergraduate students of the ISE Department in The Hong Kong Polytechnic University.

#### 4. **Membership Promotion**

Executive committee members have continuously exerted their effort in membership promotion. A total of 120 alumni renewed their ordinary membership or newly joined our growing family this year.

#### 5. **Newsletter / Publication**

To strengthen the communication between the alumni, the students, and the ISE Department, the MILESAA Newsletter has been published since December 2009. The fifth issue was published in June 2012.

#### 6. **Webmaster / Database**

MILESAA Database was launched in August 2010. The database includes the following features:

##### a) Find Friends

Members can find “old friends” via the database.

## Chairman's Message

### MILESAA Annual Report 2011-2012 (Cont'd)

#### b) Career Opportunities

This feature aims to help members in their career development. It helps both members who are seeking for new jobs and members who are seeking for high-caliber engineers or fresh graduates in the engineering field to fill up posts in their organizations.

#### c) Membership Renewal

Members can complete the membership renewal application form via the online system.

#### 7. Sub-groups

The following seven sub-groups were formed according to the disciplines offered by the Department under the MILESAA. A total of 440 out of 521 ordinary and student members have opted to join these groups.

Enterprise Engineering (EE)

IGDS

Knowledge Management (KM)

Logistics Engineering (LE)

Manufacturing, Industrial & Systems Engineering (MISE)

Product Engineering & Marketing (PEM)  
Technology Management (TM)

Looking forward, I will continue to work closely with the Executive Committee members to maintain strong relationships with fellow alumni. I will also endeavor to congregate the professional knowledge and experience of our alumni to ensure our continuous contribution to the MILESAA, the ISE Department, our alma mater, and the HK community.

Last but not least, I wish to express my sincere thanks and appreciation to the Executive Committee members for their concerted efforts and enthusiasm in running the MILESAA in the past year. Special thanks are extended to the Dean of the Faculty of Engineering, Ir Prof. H.C. Man; Acting Head of the ISE Department, Ir Prof. K.C. Chan; and the department staff for their invaluable support throughout the year.

**Dave Chong**  
**Chairman (2010-2012)**  
**MILES Alumni Association of**  
**The Hong Kong Polytechnic University**

## Executive Committee (2012-2014) of the MILESAA

Members of the Executive Committee of the MILESAA for 2012–2014 were elected at the Annual General Meeting on 28 December 2012. Mr Dave Chong Chiu-

ping, Managing Director of Lucky Industrial Group Limited, was re-elected as chairman of MILESAA.

### Members of the Executive Committee (2012-2014)

Chairman	Mr Dave Chong Chiu-ping	Honorary Secretary	Dr Simon Shum Siu-pun
Senior Vice Chairman	Dr Johnny Ng Kit-chong	Honorary Financial Secretary	Dr Sandy To Suet
Senior Vice Chairman	Mr Johnny Shing Wai-lam	Committee Member	Dr George Ho To-sum
Vice Chairman	Dr Chan Luen-chow	Committee Member	Miss Lai Chi-ping
Vice Chairman	Dr Aman Chan Yat-man	Committee Member	Dr Carman Lee Ka-man
Vice Chairman	Ir Lam Man-kwan	Committee Member	Mr Eddie Leung Tin-fu
Vice Chairman	Ms Jane Wong Yuk-lin	Committee Member	Mr Peter Si Kit
Vice Chairman	Mr Eddy Wu Ka-shing	Committee Member	Mr Roger Yip Wing-kwan

## MILESAA Members

The MILESAA membership promotional programme has been conducted since April 2012. We invite alumni to join and encourage members whose subscriptions have

expired to renew their membership. We would like to take this opportunity to welcome the new members of our growing family.

Name of New Member	Year of Graduation	Programme
Mr Au Hon Lam	2011	MSc in Technology Management
Mr Chan Chi Ming	2012	MSc in Industrial Logistics Systems
Mr Chan Kai Lok	2012	BSc (Hons) in Logistics Engineering and Management
Mr Chan Yan Fan, Alan	2012	MSc in Industrial Logistics Systems
Miss Chan Yuen Ling	2008	MPhil
Miss Chan Yuen Shan	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Chau Man Lak	1980	HD in Production and Industrial Engineering
Mr Cheng Chi Ho	2011	MSc in Engineering Business Management
Mr Cheng Kwok Fai	2012	MSc in Knowledge Management
Miss Cheng Lai Yee, Iris	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Cheng Ngai Ho, Steve	2009	MSc in Industrial Logistics Systems
Miss Cheung Hiu Yan	2012	BEng (Hons) in Industrial and Systems Engineering
Mr Cheung Kwok Wai	2012	MSc in Industrial Logistics Systems
Mr Cheung Tak Wing	2009	BEng (Hons) in Product Engineering with Marketing
Mr Chiu Hin Ting	2012	MSc in Technology Management
Miss Chow Chit Ling, Jenny	2011	BSc (Hons) in Enterprise Engineering with Management
Miss Chu Man Ki	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Chung Kai Man	1985	HD in Production and Industrial Engineering
Miss Diu Tsz Shan	2012	BSc (Hons) in Logistics Engineering and Management
Mr Fan Long Hang, Norton	2012	BSc (Hons) in Logistics Engineering and Management
Mr Fu Tsz Yeung	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Fung Sui Hei	2007	MPhil
Mr Hau Chun Yip	2010	MSc in Industrial Logistics Systems
Miss Ho Kwan Wah	2012	BSc (Hons) in Enterprise Engineering with Management
Miss Ho Kwan Yin	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Ho Yung San, Frankie	1985	HD in Production and Industrial Engineering
Mr Hung Yat Ming	2012	MSc in Knowledge Management
Mr Iau Wai Shing	2003	MSc in Engineering Business Management
Miss Kam Yee Ki	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Kui Tsz Chun	2012	BEng (Hons) in Product Engineering with Marketing
Miss Kwan Lok Hin	2012	BSc (Hons) in Logistics Engineering and Management
Miss Kwan Tsz Ying	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Kwan Wing Cheung	2011	MSc in Engineering Business Management
Mr Lam Hoo Kwong	2011	BSc in Logistics Engineering and Management
Mr Lam Kin Fai	2012	MSc in Technology Management
Mr Lam Wai Keung	1985	HD in Production and Industrial Engineering
Miss Lau Sze Yan	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Lau Yan Kin	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Lee Chun Yin	2012	BSc (Hons) in Enterprise Engineering with Management
Miss Lee Ka Man	2004	PhD in Product Development
Miss Leung Hau Yan	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Leung Ka Lok, Carles	2012	MSc in Technology Management

# Membership Drive

## MILESAA Members (Cont'd)

Name of New Member	Year of Graduation	Programme
Miss Leung Man Yu, Maria	2012	MSc in Knowledge Management
Miss Leung Po Ling	2012	BSc (Hons) in Enterprise Engineering with Management
Miss Leung Pui Pik	2012	BSc (Hons) in Logistics Engineering and Management
Mr Li Hon Man, James	1985	HD in Production and Industrial Engineering
Mr Li Siqi	2012	MSc in Industrial Logistics Systems
Miss Liu Cho Yan	2012	BSc (Hons) in Enterprise Engineering with Management
Miss Loong Yim Mui	2012	MSc in Industrial Logistics Systems
Mr Ma Chun Fu, Ricky	2012	EngD in Engineering Doctorate
Mr Ma Hoi To	2005	MSc in Engineering Business Management
Mr Mak Wai Lun	2012	MSc in Engineering Business Management
Mr Mok Kwai Kei	2012	MSc in Knowledge Management
Mr Mou Wai Lun	2009	BSc (Hons) in Logistics Engineering and Management
Mr Mui Ka Tat	2012	BSc (Hons) in Logistics Engineering and Management
Mr Ng Hoi Yiu	2011	MSc in Engineering Business Management
Mr Poon Jar Heng, Kevin	2012	MSc in Knowledge Management
Mr Poon Sing Yui	2006	MSc in Engineering Business Management
Mr Shek Kin	2012	BSc (Hons) in Logistics Engineering and Management
Mr Shen Quan	2012	MSc in Integrated Engineering
Mr Shum Ka Yiu	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Shum Sui Fung	1985	HD in Production and Industrial Engineering
Mr Si Kit, Peter	1986	Associateship in Production and Industrial Engineering
Mr Siu Yee Fai	1978	Associateship in Production and Industrial Engineering
Mr Sze Kai Shing	2012	BEng (Hons) Major in Industrial and Systems Engineering
Mr Tam Wai Po	2012	MSc in Technology Management
Mr To Chap Wing	2012	MSc in Engineering Business Management
Miss Tsang Sin Tung	2012	BSc (Hons) in Logistics Engineering and Management
Mr Tsoi Siu Wai	1985	HD in Production and Industrial Engineering
Mr Tsui Man Ching	2012	MSc in Industrial Logistics Systems
Mr Wan Hoi Chi, Jackson	2004	MSc in Engineering Business Management
Mr Wang Qun	2012	BSc (Hons) in Logistics Engineering and Management
Miss Wang Wenxian	2011	MSc in Engineering Business Management
Mr Wong Chi Ching, Ken	2012	MSc in Knowledge Management
Mr Wong Ka Fai	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Wong Lap Kan	2012	BSc (Hons) in Logistics Engineering and Management
Miss Wong Po Shan	2012	BSc (Hons) in Enterprise Engineering with Management
Mr Wong Pui Kwong	2007	MSc in Industrial Logistics Systems
Mr Wong Seung Yin	1978	Associateship in Production and Industrial Engineering
Miss Wong Wing Sze, Vincy	2008	BSc (Hons) in Enterprise Engineering and E-Business
Miss Woo Wing Ka	2012	BSc (Hons) in Enterprise Engineering with Management
Miss Yan Xiaoxue	2011	MSc in Engineering Business Management
Mr Yau Sing Man	1985	HD in Production and Industrial Engineering
Mr Yu Sai Kuen	2011	BEng (Hons) in Industrial and Systems Engineering
Miss Zhu Li	2012	MSc in Knowledge Management

(In English surname alphabetical order)

## Technical Seminar on Caliper Checker and Flow Calibration 5 May 2012 (Saturday)

As one of the supporting organizations, MILESAA participated in the Technical Seminar on Caliper Checker and Flow Calibration. The seminar was jointly organized by the IEEE, Product Safety Engineering Society-Hong Kong Chapter, and the Department of Electronic Engineering of the City University of Hong Kong. Other supporting organizations include Hong Kong Society for Quality; American Society for Quality, Hong Kong; Institute of Measurement and Control, Hong Kong Section; Open University of Hong Kong, School of Science and Technology; and Hong Kong Association for Testing, Inspection, and Certification.

The seminar was successfully held on 5 May 2012 at the City University of Hong Kong. A total of 104 participants attended the seminar, which included IEEE members, MILESAA members, ISE students, and members from other organizations.

Dr George H.K. Lau delivered the opening speech. The first speaker was Ir Dr S.Y. Wong, Engineer-In-Charge of the Dimension Laboratory, Standards and Calibration Laboratory (SCL). Dr Wong's presentation was focused on the calibration of a caliper checker, which includes checking the accuracy of the test unit against the laboratory's reference standards for length

by using a digital comparator with inductive measuring probes. Determining the flatness of the test unit's measuring faces using an optical flat under a monochromatic light source was also discussed. Dr Wong demonstrated the calibration process using a typical 300 mm caliper checker in the SCL. The evaluation of measurement uncertainty was also described in his presentation.

The second speaker was Ir T.K. Chan, Engineer-In-Charge of the Mass and Related Laboratory, SCL. Ir T.K. Chan described various types of flow measurements and how they affect our daily lives. A brief introduction to the theory underlying the calibration was described. Different types of measurement, fluids, and ranges require different equipment, which entail different calibration procedures, as reflected in the presentation of gas flow rate calibration. The final part of Ir T.K. Chan's presentation was focused on air velocity calibration, which also addressed different principles of air velocity measurement.

The seminar brought together technical professionals to share their experiences and views on the calibration. The seminar was successful and was well received by the participants.



*Ir Dr S.Y. Wong's presentation in progress*



*Group photo taken after the seminar shows (from left) Dr K.C. Lee, Dr Peter S.W. Leung, Mr Wilson Loke, Dr George H.K. Lau, Ir T.K. Chan, Ir M.K. Lam, Ir S.L. Mak, Ir Dr Lotto Lai, Dr C.F. Luk, and Mr Horace Lau.*

*Prepared by Ir M.K. Lam*

## Technical Seminar on Manufacturing Improvement and Optimization 30 June 2012 (Saturday)

MILESAA, the Manufacturing and Industrial Engineering Section (MIES) of The Institution of Engineering and Technology Hong Kong (IET Hong Kong), and the Department of System Engineering and Engineering Management of the City University of Hong Kong jointly organized the technical seminar on Manufacturing Improvement and Optimization on 30 June 2012. The event was attended by 49 participants, including 16 MILESAA members, ISE students, and ISE alumni.

This seminar aimed to provide opportunities for leading executives and professionals in industries and to share their updated information on manufacturing improvement and optimization.

Ir Dr K.S. Chin, Associate Professor of the City University of Hong Kong, and Dr Simon Shum, Honorary Secretary of MILESAA, gave the welcome remarks and opening speech respectively.

Three distinguished speakers were invited to the seminar:

### ***Dr Y. H. Li***

#### ***Managing Director of Top Talent Consultants Ltd., and President of the Institute of Systematic Innovation***

Dr Li presented an inspiring topic on Manufacturing Improvement and Strategy. He mentioned four areas of customer expectations, namely, price, quality, time, and variety. He suggested that companies may focus on at least one of the expectations, but should never focus on all expectations. He provided various examples showing the practical strategy in manufacturing improvement.

### ***Dr Ryan Chan***

#### ***Director of Prophecy Analytics***

Dr Chan presented a topic on Production Optimization. He demonstrated the use of modeling and simulation to identify the bottlenecks within the processes of a manufacturing system and to optimize them using the scenario planning technique. Cost can be greatly reduced by performing a simulation study before the actual investment and production are made.

### ***Dr Peggy Lau***

#### ***Senior Engineer of Fedex Express***

Dr Lau presented a very interesting topic related to Optimization in a Changing World. She did not only present the use of dynamic optimization and optimization according to environment and time, but also demonstrated how a genetic algorithm can be used for optimization.

After the presentations, a panel discussion was held wherein the participants actively asked questions related to optimization and improvement. Their questions were addressed by the speakers.

As a whole, the seminar was well received by the participants, and they obtained a better understanding of the concept and application of methods and tools for manufacturing improvement and optimization. This seminar brought technical professionals together to share their experiences and views on Manufacturing Improvement and Optimization.



Group photo taken after the seminar shows (from left) Mr Ken Lam, Mr John Chow, Dr Simon Shum, Ir M.K. Lam, Prof. Benny Cheung, Dr Ryan Chan, Dr Peggy Lau, Mr Kenneth Yu, Ir Andrew Cheng, and Mr Lewis Choy.

Prepared by Ir M.K. Lam



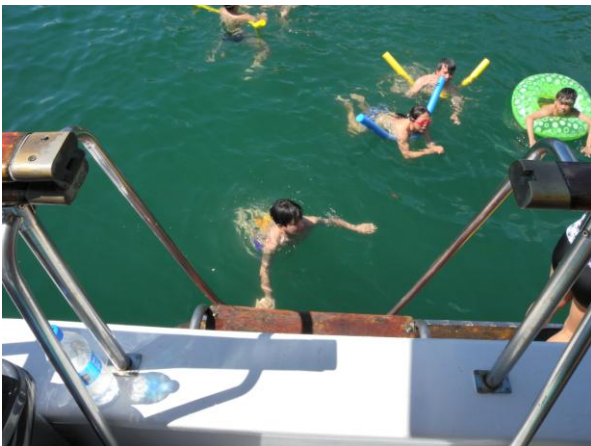
## Sai Kung Boat Trip 7 July 2012 (Saturday)

MILESAA, and The University of Warwick and The Hong Kong Polytechnic University Manufacturing Alumni Association (IGDSAA) jointly organized a boat trip to Sai Kung on 7 July 2012.

A group of 32 participants including families and friends of our alumni gathered at Sai Kung Pier on a sunny Saturday morning. The participants headed off to Pak Lap Wan where the water was clear and cool. Youngsters eagerly jumped into the water and swam toward the beach. While the attendees were relaxing

at the beach, the boat owner's wife was preparing seafood dishes for lunch. Boiled shrimp, chili crab, crispy squid, fried clam, and chicken wings were cleared away quickly.

After lunch, the group moved to Tai She Wan where some participants went on exciting activities such as banana boating and wakeboarding, while others ventured to the rocky shore to see the corals. Everyone was tired on the way back and it was a good time for a nap.



*Youngsters enjoyed swimming*



*Exciting banana boat activity*



*A good diving jump*



*Too bad! The canoe turned upside down.*

*Prepared by Ms Jane Wong*

## **Innovation Technology 2012 “Creating New Opportunities through Innovation” 14 July 2012 (Saturday)**

MILESAA and the MIES of IET Hong Kong jointly organized a technical seminar entitled “Innovation Technology 2012: Creating New Opportunities through Innovation” on 14 July 2012. The event was attended by 81 participants including 4 MILESAA members, 14 ISE students, 4 IGDS alumni, 60 IET members, and representatives from the industrial, commercial, and education sectors.

Three distinguished speakers were invited to deliver talks covering different perspectives of how innovation technology has been successfully applied and developed. Topics included:

### **“Behind the Scene of Apps Development”**

*Mr Benny Leung, Chief Operating Officer of Green Tomato Ltd.*

Mr Leung shared his experience in a number of projects illustrating how consumers are embracing applications on their mobile devices and the benefits given to both consumers and businesses. He further explained the design and development cycle of their mobile applications. Successful stories from industries were also discussed with examples and demonstrations.

### **“One Earth Designs: Community-Inspired Innovations”**

*Mr Sloan Kulper, Chief Design Officer of One Earth Designs*

Mr Kulper explained how his company works with low-income communities worldwide to incubate local innovation and entrepreneurship in the face of rapid environmental and socioeconomic change as a non-profit organization. He then talked about the development process of their product SolSource, a lightweight solar energy device that provides users with a low-cost and portable means of cooking, heating, and generating electricity. This product was co-designed with rural Himalayan communities.

### **“Transferring and Commercialization of Innovation Technology”**

*Mr Raymond Chu, Assistant Director of the Institute for Entrepreneurship at PolyU*

Mr Chu talked about their roles in technology and knowledge transfer by collaborating with the commercial and industrial sectors to sustain economic growth, create employment opportunities, and shape a

better future for the Hong Kong community. Many successful case studies from industries were discussed in this presentation.

After the excellent presentations, several practical questions were raised and discussed. A constructive, fruitful, and inspiring discussion was undertaken with good interaction among the speakers and the participants, which indicated the interest of the participants in the issues related to technology and product innovation.

After Mr Raymond Chu’s presentation, Prof. Benny Cheung and Mr Chu led the participants in a laboratory tour to the House of Innovation, which showcases PolyU’s wide range of expertise, capabilities, and state-of-the-art technologies, equipment, and facilities.

This seminar brought technical professionals, academia, and practitioners together to share their views on applying innovation technology during product development. The event was successful and well received by the participants.



*Group photo taken after the seminar shows (from left) Mr Nick Lam, Mr Kenneth Yu, Mr Geddy Lee, Mr Benny Leung, Mr Sloan Kulper, Mr Raymond Chu, Prof. Benny Cheung, Ir M.K. Lam, Mr Andrew Cheng, and Mr Peter Si.*

*Prepared by Ir M.K. Lam*

## Technical Seminar on Precision Manufacturing of Critical Components and Advanced Products 1 September 2012 (Saturday)

MILESAA, ISE Department of The Hong Kong Polytechnic University, and MIES of IET Hong Kong jointly organized a technical seminar entitled "Precision Manufacturing of Critical Components and Advanced Products" on 1 September 2012. The event was attended by 62 participants including 7 MILESAA alumni, 4 ISE students, and 51 IET members and professional personnel.

Three distinguished speakers were invited to deliver talks about Precision Manufacturing of Critical Components and Advanced Products from development to manufacturing. Topics included:

### ***New Development of Precision Manufacturing***

*Prof. K.L. Yung, Professor and Associate Head of the ISE Department of PolyU*

Prof. Yung presented the developments on precision manufacturing technology. He introduced the latest technology in pico-second pulse laser, high-precision positive/negative taper drilling, and the application of micro/nano fabrication technology.

### ***Laser Micromachining and Microjoining Technology***

*Mr William Yim, President of Sanwa Technologies Limited and Hong Kong Critical Components Manufacturers Association*

Mr Yim presented the latest information on laser micromachining and micro-joining technology. He introduced its application in industries such as biomedical and automotive.

### ***Micro Injection Mould Making***

*Mr Stanley Cheung, Director of Global Wise Precision Technology Co. Ltd. and Man Fung Mould Industrial Co. Ltd.*

Mr Cheung presented the technology of micro-injection mould making. He invested considerable time and manpower on the high-precision component research and manufacturing.

A panel discussion was conducted and chaired by Mr Ricky Wu, Committee Member of MIES-IET Hong Kong. During the discussion, speakers provided professional explanation and valuable feedback to address the questions raised by the audience.

This seminar provided an excellent opportunity for alumni, members, professional personnel, and students to learn and share about precision manufacturing.



*Group photo taken after the seminar shows (from left) Ir M.K. Lam, Mr Ricky Wu, Mr Stanley Cheung, Ms Minda Chiang, Ir C.L. Chu, Prof. K.L. Yung, Mr Dave Chong, Mr William Yim, Mr Samson Lam, Dr George Lau, Ir S.L. Mak, and Mr John Chow.*

## 2012 Homecoming Dinner - for MPM, PIE, MFG, and ISE Alumni 19 October 2012 (Friday)



PolyU is having its 75th Anniversary this year.

To celebrate this memorable year, MILESAA organized the “2012 Homecoming Dinner - for MPM, PIE, MFG, and ISE Alumni” on 19 October 2012 at the Choi Fook Royal Banquet, Hung Hom, Kowloon.

To recognize the remarkable professional achievements of our alumni and their significant contributions to their alma mater and the community, the ISE Department and MILESAA jointly organized the “ISE Distinguished Alumni Award” this year. The award presentation ceremony was also held during the dinner.

More than 300 alumni, industrialists, presidents of associations, students, and department staff joined this event to celebrate PolyU’s 75th Anniversary, and to share the happiness with the awardees.

The awardees, in alphabetical order of English surnames, are:

- Mr Fok Chi Man, Director of Diffractive Optics Ltd.



Guest-of-Honour Prof. Roy Chung, BBS, JP gave a speech.

- Mr Fung Wai Hing Anthony, Executive Director of Lung Kee Group
- Dr Ko Kam Chin, Senior Vice President of Automotive Products Group – Asia Pacific in Johnson Electric Group
- Prof. Lee Tai Chiu – Independent Non-executive Director of Leepport (Holdings) Ltd.
- Mr Leung Tin Fu Eddie, Managing Director of Paper Communication Exhibition Services
- Dr Ng Kam Wing Kenneth, Director of Silcon Electronics Co. Ltd.
- Mr Tam Chit Ho Fred, Managing Director of Wan Ho Industrial Co. Ltd.
- Mr Tam Jo Tak Dominic, Director of Combine Will Industrial Co. Ltd.

Apart from the award presentation ceremony, variety shows and lucky draws were also held during the dinner. All of the participants had an enjoyable night.



Guest-of-Honour Ir Dr the Hon. Lo Wai Kwok, BBS, MH, JP gave a speech.

## 2012 Homecoming Dinner - for MPM, PIE, MFG, and ISE Alumni 19 October 2012 (Friday) (Cont'd)



Mr Dave Chong, Chairman of MILESAA (5<sup>th</sup> from right), Ir Prof. H.C. Man (5<sup>th</sup> from left), Ir Prof. K.C. Chan (4<sup>th</sup> from right), posed for a photo with awardees. (From right) Mr Fok Chi Man, Mr Fung Wai Hing, Prof. Lee Tai Chiu. (From left) Mr Leung Tin Fu, Mr Tam Jo Tak, Mr Tam Chit Ho, Dr Ng Kam Wing.



Mr Chan Ho Tak pushed the evening to a climax.



Chinese Orchestra Performance by HKPUSUCO



Beer Drinking Contest



Student performance by Miss Ho Ka Yee



A glance at the dinner



MCs of the Dinner: Miss Vincy Wong and Mr Andy Chan.

## Technical Visit to Ocean Park 3 November 2012 (Saturday)

Response to the technical visit to Ocean Park was overwhelming and online registration was full next day after the event was announced. A total of 26 participants attended the visit, which was co-organized by MILESAA and IGDSAA.

A brief introduction on the Life Support System (LSS) of the Grand Aquarium was presented by Mr Abraham Wong, Senior LSS Manager. The volume of the aquarium's main tank (T20) is 5,000 m<sup>3</sup> (about twice that of a standard swimming pool), the LSS is divided by two loops, namely, the skimmer and bottom and

other jewel tanks. The LSS equipment include circulation pump, sand filter and foam fractionators, UV sterilizer, temperature control device, and real-time control and monitoring system to keep the water crystal clear.

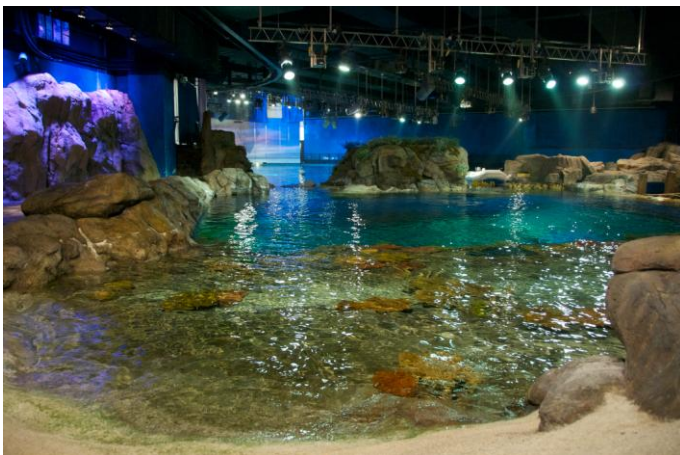
After visiting the Grand Aquarium, the participants took the Ocean Express train to the Summit area where the operation and maintenance of three amusement rides—The Hair Raiser, The Flash, and Ocean Park Tower—were explained by Mr Willie Choy of the Rides Maintenance Department.



*Group photo at Ocean Park*



*Members listening intently to the explanation.*



*Grand Aquarium*



*Exciting ride – The Flash*

*Prepared by Ms Jane Wong*

## ISE MILES Alumni Association Singing Contest 2012 10 November 2012 (Saturday)

The ISE MILES Alumni Association Singing Contest 2012 was successfully held on 10 November 2012 at the Chiang Chen Studio Theatre. The contest was sponsored by the ISE Department of The Hong Kong Polytechnic University, and supported by Wan Ho Holdings Inc. and the 19th Hong Kong Polytechnic University Student Union.

The contest was divided into solo and group sections. A total of 33 students and 9 groups participated in the solo and group sections respectively. After the first round, 6 students from the solo section and 6 groups from the group section entered the finals.

### Solo Section

#### **Champion**

Mr Ho Wui Hong (Year 3)  
BSc (Hons) in Enterprise Engineering with Management

#### **1<sup>st</sup> Runner-up**

Mr Chan Lun Chau (Year 3)  
BSc (Hons) in Enterprise Engineering with Management

### Group Section

#### **Champion**

Mr Chow Nok To (Year 1)  
BEng (Hons) in Industrial and Systems Engineering  
Mr Chuk Man Chun (Year 1)  
BSc (Hons) in Enterprise Engineering with Management

#### **1<sup>st</sup> Runner-up**

Mr Chan Wai Lun (Year 1)  
Higher Diploma in Industrial and Systems Engineering  
Mr Tang Kwok Kwan (Year 2)  
BSc (Hons) in Enterprise Engineering with Management

It was an honor to have celebrities Mr Albert Au and Ms Candy Chea as judges for the competition.

The Hong Kong Virtuoso Chorus (HKVC) was invited to perform one of their newest and meaningful pieces for the competition. HKVC was established in January 2011. Its membership comprises a diverse range of promising young Hong Kong musicians aged 16 to 25. The Chorus is committed to offering the finest choral repertoire, as well as inspiring the public with the group's passion and talent in music. HKVC also aims to promote the ideals of aesthetic appreciation and strives to fulfill their charitable and social responsibilities.

The contest was well attended, gathering 146 students and guests. The audience delighted in the performances and was thrilled during the lucky draw portion of the program. The event received favorable responses from the guests and students who attended.



Mr Chuk Man Chun (2<sup>nd</sup> left) and Mr Chow Nok To (2<sup>nd</sup> right), Champion - Group Section



Mr Ho Wui Hong, Champion - Solo Section

## ISE MILES Alumni Association Singing Contest 2012 10 November 2012 (Saturday) (Cont'd)



Mr Tang Kwok Kwan (2<sup>nd</sup> left) and Mr Chan Wai Lun (2<sup>nd</sup> right), 1<sup>st</sup> Runner up - Group Section



Mr Chan Lun Chau, 1<sup>st</sup> Runner up - Solo Section



Performers of the contest



Ir Prof. K.C. Chan (1<sup>st</sup> right), Acting Head of the ISE Department, and Dr George Ho (1<sup>st</sup> left), Committee Member of MILESAA, presented souvenirs to Mr Albert Au (2<sup>nd</sup> left), Ms Candy Chea (3<sup>rd</sup> left), Mr Chan Yau Fai (2<sup>nd</sup> right), Vice President of Wan Ho Holdings Inc., and Mrs Candy Chan (3<sup>rd</sup> right), representative of Wan Ho Holdings Inc.



### Multimedia Technology Forum 2012 – “Mobile Media Make the Future” 24 November 2012 (Saturday)

The MIES, Informatics and Control Technologies Section of IET Hong Kong, Department of Multimedia and Internet Technology, IVE (Lee Wai Lee), and MILESAA of The Hong Kong Polytechnic University jointly organized the “Technical Seminar on Multimedia Technology Forum 2012 – Mobile Media Make the Future” on November 24, 2012. The event, supported by 14 supporting organizations including professional institutions and academic institutions, was held at the Lecture Theatre of the IVE (Lee Wai Lee).

The seminar aims to provide an excellent opportunity to update the participants’ knowledge regarding the fast growing business of social media in the digital advertising industries. It not only brought together technical professionals and personnel to share their views on Information Technology, but also shed light on how to take advantage of opportunities and face new challenges.

Four distinguished speakers were invited to discuss various inspiring topics in the seminar. The discussions included “**The Magic of Mobile Apps in the Social Media Network**” by *Mr Benny Leung, Chief Operating Officer of Green Tomato Ltd.*, “**Global Mobile Media Market & Mobile Game Business**” by *Mr Thomas Lee, Regional Business Development Director of Outblaze Ventures Ltd. and Totally Apps Holdings Ltd.*, “**Mobile Marketing in Hong Kong**” by *Mr Johnny Wong, Chief Executive Officer of Hot-Mob*, and “**Facebook Marketing – on the move!**” by *Mr Willy Lai, Business Director of Fimmick*.

The event was a resounding success as approximately 90 guests and participants attended. Mr Dave Chong, Chairman of MILESAA, delivered the closing speech for the seminar.



*Group photo after the seminar with (from left) Mr Dave Chong, Mr Johnny Wong, Mr Samson Lam, Chairman of MIES of IET Hong Kong, Mr Benny Leung, Mr Thomas Lee, Mr Willy Lai, and Dr Eric Liu, Vice-Principal (Academic), Hong Kong Design Institute and IVE (Lee Wai Lee).*

## 2012 PolyU Alumni Homecoming Fiesta

### Visitors as “Logistics Master” at the Alumni Homecoming Fiesta

Thousands of alumni, staff, and students brought their families to attend the 2012 PolyU Alumni Homecoming Fiesta on 11 November 2012. Activities included exhibitions, games, and guided tours. To assist the department in facilitating the event, the Radio Frequency Identification (RFID) Solutions Laboratory from the ISE Department held a game booth entitled “Logistics Master.” Guests endlessly raved about the game booth, thus signaling the success of the activity.

Under the guidance of Dr W.H. Ip, Associate Professor from the ISE Department, members of the laboratory conceived an innovative idea integrating RFID technology and radio controlled forklifts into a logistics competition game. The game, which started to operate at noon, attracted numerous visitors. With its high popularity among the visitors, the reservation list was full within two hours. All players enjoyed the game and immersed themselves in the competition. With

countless enthusiastic responses, the game was even extended by nearly an hour in support of the players.

“Logistics Master” is a game comprising two players who are given controllers to operate forklifts to transport pallets to the scoring area. By leveraging RFID technology, once the forklift successfully places the pallet with the RFID tag attached in the scoring area, real-time data of scores are counted and shown instantly. The winner is the player who gains the higher score by lifting and transporting the pallets carrying different scores to the scoring area within the limited time.

The champion and first runner-up of each round were awarded with different prizes for encouragement. The top five players were awarded with PolyU 75<sup>th</sup> Anniversary Octopus Cards. After the intense competition, the top scorer was the player who achieved 770 points.



All players enjoyed the game and flung themselves into the competition.



Team members of the RFID Solutions Laboratory and student assistants posed for a group photo.



One of the Top five players (center) and his family received the PolyU 75th Anniversary Octopus Card.

## Distinguished seminar on Internet of Things (IoT)

PolyU's Department of Industrial and Systems Engineering (ISE) and Department of Computing (COMP) co-organized a distinguished seminar on the Internet of Things (IoT) with GS1 Hong Kong on 12 November 2012. The event was held at the PolyU Hotel ICON.

Ir Prof. Alex Wai, Vice President (Research Development), and Ms Anna Lin, Chief Executive Officer of GS1 Hong Kong, delivered welcome addresses for the seminar. In his welcome address, Prof. Alex Wai reiterated PolyU's commitment to excel through professional education, applied research, and partnership. He said, "This seminar and collaboration provide a good example on academic-industrial collaboration for the betterment of our society. PolyU is committed to fostering 'Innovation and Application' through professional education, applied research, and partnership." He also congratulated the outstanding achievements of PolyU students who received two Gold and two Silver awards in the recent Hong Kong U-21 RFID Awards 2012. He also applauded the two major awards the students achieved in the Hong Kong-Taiwan EPC/RFID Academia Awards 2012 (香港-台灣大專學界 EPC/RFID 大獎 2012).

The key speaker was Prof. John Williams, Director of MIT Auto-ID Lab. He is a world-renowned professor recently recognized as one of the 50 most powerful

people in computer networks. He shared his views and experiences on the Internet of Things (IoT) through his insightful talk, "Challenges in Internet of Things, Big Data and Cyber Security." Two local speakers also delivered meaningful discussions. Mr K.K. Suen, Chief Architect and Principal Consultant of GS1 Hong Kong, discussed the topic "Embracing Internet of Things, Embracing a Smarter Life." Ir Paul W.K. Wu, Senior Manager of Airport Authority Hong Kong, delivered a talk on "RFID Applications in HKIA." Finally, Dr W.H. Ip, Associate Professor of the ISE Department, and Dr Henry Chan, Associate Professor of the COMP Department, shared with the audience the award-winning RFID projects of PolyU students. The list of prominent guests included Ir Prof. H.C. Man, Dean of the Faculty of Engineering, and Ir Prof. K.C. Chan, Acting Head of the ISE Department. Both guests also expressed their support for the seminar, as well as praised the students for their outstanding performance in the two competitions.

In the recent Hong Kong U-21 RFID Awards 2012, PolyU students won two Gold Awards and two Silver Awards. They also won the Best Potential Application Awards (最具潛質應用大獎) and the Most Innovative Awards (最具創意大獎) in the recent Hong Kong-Taiwan EPC/RFID Academia Awards 2012 (香港-台灣大專學界 EPC/RFID 大獎 2012).



Group Photo: Dr W.H. Ip (1<sup>st</sup> left), Dr Henry Chan (2<sup>nd</sup> left), Ir Paul W.K. Wu (6<sup>th</sup> left), Ms Anna Lin (6<sup>th</sup> right), Ir Prof. Alex Wai (5<sup>th</sup> right), Prof. John Williams (4<sup>th</sup> right), Mr K.K. Suen (3<sup>rd</sup> right), Ir Prof. H.C. Man (2<sup>nd</sup> right), and Ir Prof. K.C. Chan (1<sup>st</sup> right).



Speakers and guests are building networking.



Ms Anna Lin, Chief Executive Officer of GS1 Hong Kong, delivering an insightful presentation to the audience.

## Student Achievements

### Students shine in U-21 RFID Award Program

Students from the ISE Department demonstrated their high level of originality and creativity on applying EPC/RFID technologies. Under the guidance of Dr W.H. Ip, Associate Professor from the ISE Department, their team won the **Gold Award** in the category **Best EPC/RFID Concept in HK RFID U-21 Awards 2012**. Apart from this achievement, their team was nominated and once again emerged victorious in the HK-Taiwan EPC/RFID Academia Awards 2012.

After rigorous assessment, the team of six students—Chan Yuk Chin, Cheng Chin Tung, Hui Yuk Yi, Leung Yiu Man, Liu Lai Shan, and So Freedom—outshone their competitors from Hong Kong and Taiwan. Their brilliance and innovativeness garnered two awards, Most Innovative and Best Research, in the HK-Taiwan EPC / RFID Academia Awards 2012.

The team attempted to apply the EPC/RFID technologies to tackle the difficulties in all aspects for visually disabled people. RF-eye aimed at providing signs and barrier-free environment for visually impaired people through the integration of RFID and EPCglobal™. Components of the “RF-eye” include a tag, which is a reader installed on the blind cane, a processor, which is a smartphone, and a bluetooth earphone. Once a tag with geographical coordinates embedded under the guiding path is detected, the reader will be able to define the current position of the user through the smartphone application. It will then coordinate with EPCglobal™ network to extract relevant information. Finally, the analyzed information will be delivered to the application and announced to the user via the bluetooth earphone.



Components of RF-eye



From left: Dr W.H. Ip, Associate Professor of the ISE Department, Miss Hui Yuk-yi, Miss Liu Lai-shan, Miss Cheng Chin-tung, Miss So Freedom, Mr Chan Yuk-chin, and Mr Leung Yiu-man pose for a group photo.

## PolyU students receive Silver Award for best concept

PolyU students Cheng Mei Na, Kwong Kuk Hung, Leung Po Ling, and Ng Chun Kit won the **Silver Award** (Best EPC/RFID Concept) at the Hong Kong U-21 RFID Awards 2012 presented by GS1 Hong Kong. Under the guidance of Dr W.H. Ip and Prof. Benny Cheung of the ISE Department, their team created an innovative project called **“ePlatform for Collective Memory Acquisition and Preservation – Sustain our Unique Legacy Easy (eCAPSULE).”**



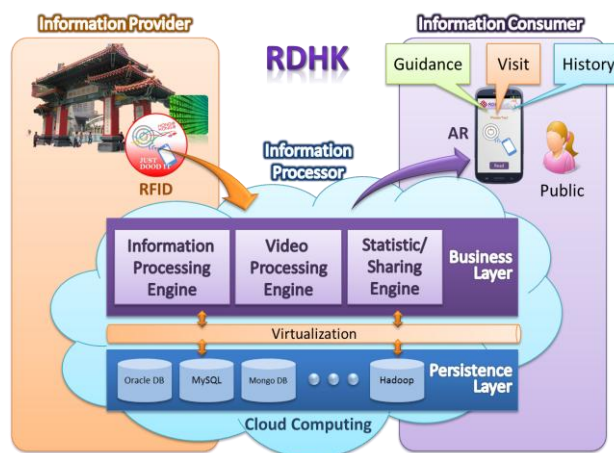
Team members (from left): Ng Chun-kit, Kwong Kuk-hung, Leung Po-ling, and Cheng Mei-na

The award reflected the high level of originality and creativity among young talents from Hong Kong, particularly in adopting EPC/RFID technology to address a well-defined daily problem. Consequently, this innovation has foreseeable market potentials. Their winning project, “ePlatform for Collective Memory Acquisition and Preservation – Sustain our Unique Legacy Easy (eCAPSULE),” leverages RFID, cloud computing, augmented reality (AR), and geo-social networking technologies to enable visitors and locals to discover the underlying local culture of Hong Kong. In using mobile devices to read RFID location tags installed at places of interest and guideboards, the innovation can help Hong Kong better promote local cultural heritage and conservation through building and enhancing a collective memory. Since the winning team was interviewed by local news, Sing Tao Daily, the project has raised public interest and awareness. Moreover, the published article on 19 November 2012 showcased the team’s remarkable idea of utilizing RFID and other emerging technologies in culture conservation as well as heightened the project’s significance.

### Details on the winning project – “ePlatform for Collective Memory Acquisition and Preservation - Sustain our Unique Legacy Easy (eCAPSULE)”

As a tourist destination, Hong Kong has long been regarded as a shopping and gourmet paradise. However, the city has much more to offer other than just luxury goods and fine dining with a rich cultural heritage infusing Eastern and Western cultural influences. This heritage has been largely overlooked despite its potential in helping broaden the appeal of Hong Kong’s indigenous culture. Indeed, it has only been in recent years that Hong Kong’s cultural heritage merited more scrutiny. In fact, it was the demolition of Queen’s Pier in 2008 that eventually sparked intense public debate over the need for more local cultural conservation.

By leveraging RFID technology, cloud computing, AR, and geo-social networking technologies, the ePlatform for Collective Memory Acquisition and Preservation – Sustain our Unique Legacy Easy (eCAPSULE) concept project aims to assist Hong Kong better promote local cultural heritage and conservation. Designed by students from the ISE Department of The Hong Kong Polytechnic University, this project enables visitors and locals to discover the underlying local culture of Hong Kong using mobile devices to read RFID location tags installed at places of interest and guideboards.



System Architecture of platform, RDHK, of eCAPSULE

The user simply uses his or her mobile device to scan RFID location tags to access information regarding a location on a cloud-based database via a pre-installed mobile application. The platform provides integration with popular online multimedia and social networks such as YouTube and FaceBook. In this manner, the eCAPSULE not only serves as a convenient tourism guide to augment a visitor’s experience of Hong Kong, but can also be utilized to build a collective memory for local cultural conservation and sustainability, as well as to promote the city’s cultural heritage.

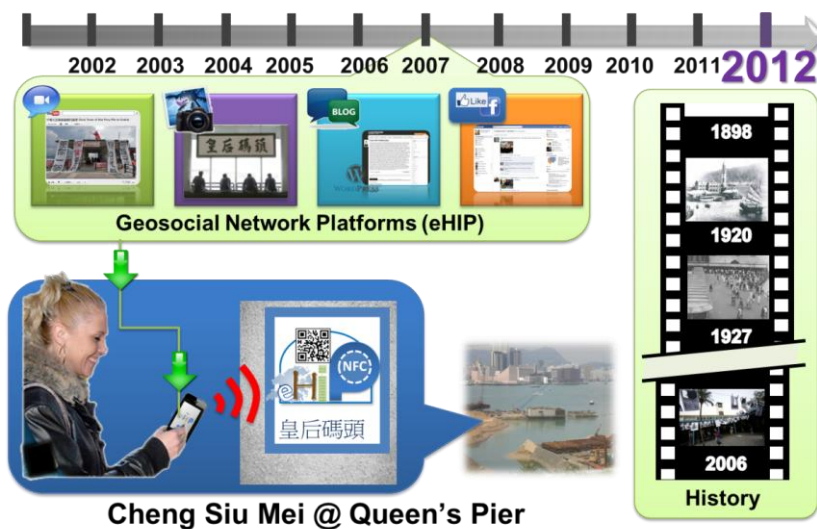
## ePlatform for Heritage Inheritance and Preservation Achieves Innovation Award

Congratulations to Miss Cheng Mei Na and Mr Ng Chun Kit, research students from the ISE Department, who participated in the Micro Fund Scheme 2012 and won the **Merit Award** of PolyU Micro Fund 2012 Innovation Stream.

The Scheme attracted approximately 200 applicants and engaged over 400 students and alumni this year. The Innovation Stream rewards students' innovative ideas that can be readily adopted to the community. After rigorous assessment, the innovation project undertaken by Mei-na and Chun-kit was granted the Merit Award under the guidance of Prof. Benny Cheung and Dr W.H. Ip.

The successful information and communication technologies project “ePlatform for Heritage

**Inheritance and Preservation (eHIP)**” incorporated the smartphone and location-based services to initiate an interactive geo-social networking platform (eHIP) for heritage preservation to attain cultural sustainability. People use their smartphones in tapping the QR Code/Rfid tags placed on designated sites and gaining access to eHIP to instantly share and acquire information. The platform can also gather public opinions to enhance participation, thus favoring memory accumulation which visualizes collective memory and contributes to preserving the memory of the old heritage. This upholds the slogan, “Tag for our memory, tag for our history, and tag for our next generation!”



Collective memory visualization via eHIP



Prof. Timothy Tong (2<sup>nd</sup> from right), President, and Ir Prof. H. C. Man (1<sup>st</sup> from right), Chair Professor of Materials Engineering and Dean of the Faculty of Engineering, presented the certificate to the winning students Mr Ng Chun-kit and Miss Cheng Mei-na.

## Chameleon

Over the past 75 years, our Department has blended with the calls for change in the society. As an academic chameleon, we have efficiently reflected the mission and vision of our alumni. The development of local technical education can be traced back to 1937 when the Government Trade School was set up in Wood Road, Wanchai. It was the first publicly funded, post-secondary technical institution in Hong Kong, and was the forefather of PolyU. The development of the institute has been consistently in line with the changing needs of the society. In fact, our Department was one of the three founding departments, and it has continuously evolved over the last seven decades. The evolution of our Department also reflected the changes of industrial education in Hong Kong and the transformation of our economy.

In the early stage, the scale of the institute was quite small during World War II. After the War, Hong Kong experienced a population explosion and accelerating industrialization brought about by the influx of immigrants, entrepreneurs, and capital from the Mainland in the 1950s. However, manufacturing consisted of mainly light and labor-intensive industries. This led to a huge demand for trained technicians and professionals to support the development of industries in the 1960s.

In the 1970s, Governor Sir Murray MacLehose carried out several notable infrastructures, such as the introduction of the nine-year compulsory education, the ten-year housing program, creation of ICAC, establishment of satellite “new towns,” and construction of MTR. These laid the foundation for the emergence of a modern Hong Kong, a cohesive, self-aware society. At the end of the 1970s, Hong Kong industries rapidly took off. The economy became prosperous. There was a great demand for professionals in middle management of production and industrial engineering to support the continuous growth of the manufacturing industry. I still remember when I was admitted to Hong Kong Polytechnic in 1982. The student in-take for Higher Diploma course in Production and Industrial Engineering (PIE) was 160, whereas PIE (Sandwich) was 40. Wow! It might be the greatest cohort of student intake of the year in PolyU. This occurred because manufacturing remained as the biggest sector in the 1980s, occupying 41.2% of the working population. In the course, we learned mainstream manufacturing technologies and several industrial engineering management concepts. In our Associateship course, we were the first students to learn the theory of advanced manufacturing technology and to practice robotics and CAD/CAM system in our laboratories, such as the first Computervision Workstation in Hong Kong. In just a few years as a student of the Department, I witnessed the rapid advancement of the manufacturing technology. However, I was impressed as our Department remained ahead of the development by taking a lead role in research.

From the 1980s to the 1990s, most local factories and

industrial plants were being relocated to the Mainland where land rental rates and labor costs were cheaper. Consequently, there arose a huge demand for more trained professionals to support the development of logistics in the manufacturing industry between the plants in Hong Kong and the Pearl River Delta. Furthermore, from 1996 to 2011, it was found that the working population in manufacturing sector dropped from 0.58 million to 0.17 million, whereas the tertiary industry increased from 2.17 million to 3.10 million. Similarly, the GDP of the manufacturing industry in 2010 was less than 3% while that of the tertiary industry reached 95%. In fact, the industrial relocation had led to a severe drop in the manufacturing industry's share on the value of domestic imports and the rise of the tertiary industry. In response to the situation, the Department started to develop other mainstream courses such as Logistics Engineering, Supply Chain Management, Knowledge Management, and Enterprise Engineering in addition to the hard core subjects on advanced manufacturing technology. The Department evolved once again from the mainstream of mechanical and manufacturing engineering to industrial and systems engineering to sustain their lead in this ever-changing industry.

I believe most graduates have been evolving in their careers and have adapted to the changes for the past years. I am no exception. I graduated from the Department in the mid 1980's and worked in the manufacturing industry for eight years as an engineer. Then, I came across an opportunity to become a lecturer of manufacturing engineering in a vocational institution in the mid 1990s. As the demand for manufacturing engineers in Hong Kong was diminishing, I decided to switch tracks and pursued a career in multimedia technology to support the newly formed creative industry in early 2000. Last year, I was presented with another opportunity. I was asked to work for the Mainland services. I accepted the challenge and quickly sought measures to support my decision. Akin to our Department's efforts, I have been a chameleon in my career as well.

Unlike other engineering disciplines such as civil engineering or electrical engineering, which are comparatively more stable in their development, our Department has to adapt with the unexpected changes. This is partly because Hong Kong is a small place, thus limiting the government's vision for the industries. However, we are well aware that it is crucial for us to always be well equipped for the changes ahead. Last but not least, what plan does the Department have to equip our students with the most valuable attributes to face the new challenges of the changing economy, as well as to become sustainable in their career paths? Will they become well-adapted chameleons in the future as well?

**by Dr Simon Shum Siu Pun**

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*Doctor of Philosophy (1999)*



Manufacturing, Industrial, Logistics, Enterprise and Systems Alumni Association

**MILESAA**

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