



News

Chairman's Message

- Annual General Meeting 2011

It is with utmost pleasure that I present the annual report for the Annual General Meeting 2011 during my first term as Chairman of the MILES Alumni Association of The Hong Kong Polytechnic University (MILESAA). The past year has been meaningful and fruitful. In working closely with the members of the Executive



Committee, we have continuously exerted efforts in developing a close network and relationship with fellow alumni, students, and the Department of Industrial and Systems Engineering of PolyU. Moreover, MILESAA organized and participated in a wide range of activities for the alumni. Some significant achievements in 2010 to 2011 are summarized as follows:

1. **Membership:** As of 10 November 2011, MILESAA has a total of 396 valid, ordinary and student members.
2. **Activities:** We not only organized a wide range of alumni activities for alumni and students, but also actively co-organized various activities with different engineering associations and societies in 2010 to 2011. The activities include:
 - (i) Wine Tasting Night
 - (ii) 醫療專題講座：工作間常見的骨骼肌肉問題
 - (iii) Family Fun Day Tour
 - (iv) Technical Seminar on Theory of Constraints, Lean, and Six Sigma
 - (v) Conference on Green Quality Management – Striving for Lean and Low Carbon Culture
 - (vi) Visit to Dongguan Tao Heung Logistics Centre
 - (vii) Technical Seminar on Innovation Technology 2011 – *'Meeting New Challenges and Creating New Opportunities in the 21st Century'*

3. **Newsletter:** To strengthen the communication between the alumni, the students, and the Department of Industrial and Systems Engineering (ISE), the MILESAA Newsletter was established in December 2009. The fourth issue was published in October 2011.

4. **Webmaster / Database:** The MILESAA Database was launched in August 2010. The database includes the following features:

(i) Find Friends

Members are able to find 'old friends' via the Database.

(ii) Career Opportunities

This feature aims to help members in their career development. Additionally, the feature helps both members seeking new jobs and members looking for high calibre engineers or fresh graduates in the engineering field to fill up posts in their organizations.

(iii) Membership Renewal

Members are able to complete the membership renewal application form via the online system.

5. **Sub-groups:** Seven sub-groups have been established according to the disciplines relevant to the ISE Department under the MILESAA.

- (i) Enterprise Engineering (EE)
- (ii) IGDS
- (iii) Knowledge Management (KM)
- (iv) Logistics Engineering (LE)
- (v) Manufacturing, Industrial & Systems Engineering (MISE)
- (vi) Product Engineering & Marketing (PEM)
- (vii) Technology Management (TM)

Chairman’s Message

- Annual General Meeting 2011 (Cont’d)

6. **Scholarship:** To recognize the outstanding academic merits and achievements of the undergraduate students of the Department of Industrial and Systems Engineering, a MILESAA Scholarship Award has been set up for the following full-time undergraduate degree programmes:

- BEng (Hons) in Industrial and Systems Engineering
- BSc (Hons) in Enterprise Engineering with Management
- BSc (Hons) in Logistics Engineering and Management
- BEng (Hons) in Product Engineering with Marketing (Scheme in Integrated Product Development)

Four full-time undergraduate students have been granted the MILESAA Scholarship for academic year 2010 to 2011. The value of each scholarship award amounted to HK\$2,300, in addition to a 10-year ordinary membership to the MILESAA, amounting to HK\$200.

I look forward to continuously and closely working with the members of the Executive Committee, as well as maintaining the strong relationships with fellow alumni. Moreover, I endeavour to congregate the professional knowledge and experiences of our alumni to continuously contribute to the MILESAA, the ISE Department, the alma mater, and the HK community.

Finally, I would like to express my sincere gratitude and appreciation to the members of the Executive Committee for their concerted efforts and enthusiasm in running the MILESAA in the past year. Special thanks are given to the Head of the Department of Industrial and Systems Engineering, Prof. H.C. Man, and the entire staff of the department for their invaluable support throughout the year.

Join Us

Graduates of the ISE Department or its forerunners (that is, Mechanical, Production and Marine Engineering, Production and Industrial Engineering, and Manufacturing Engineering), and of IGDS (a joint award conferred by both PolyU and The University of Warwick) are invited to apply for the MILESAA membership.

As a MILESAA member, you are welcome to participate in all activities, General Meetings and Annual General Meetings organized by the MILESAA. You are also eligible to apply for the Federation Card issued by the Federation of The Hong Kong Polytechnic University Alumni Associations (FHKPUAA), free of charge. As a Federation Cardholder, you will enjoy exclusive privileges, including:

- Invitation to ‘cardholder only’ activities;
- Benefits inside PolyU campus such as Graduate Library Borrower’s Ticket, Sports Permit Card, PolyU Parking, among others;
- Benefits outside campus such as CALTEX Fuel Discount, Discount from Giordano, among others; and
- Eligibility to sign up as member of the Federation’s website

For membership application, please visit www.ise.polyu.edu.hk/milesaa

ISE Alumni received Awards in Community Service

Leadership Bauhinia Volunteer Award

Organizer : Agency for Volunteer Service (AVS)

Year of Award: 2011

Dr Michael Li Ying Hung, an EngD graduate, was nominated by The Hong Kong Institution of Engineers and was bestowed the Leadership Bauhinia Volunteer Award by the Agency for Volunteer Service (AVS), in recognition of his distinguished volunteer service to the needy, and the community as a whole. He has demonstrated a showcase professional volunteering models to the community and to promote and cultivate the spirit of volunteering.



Certificate of Commendation – Distinguished Service for Community Building

Organizer : Secretary for Home Affairs, HKSAR

Year of Award: 2011



Dr Li was also granted a Certificate for Distinguished Service for Community Building by the Secretary for Home Affairs' Commendation Scheme of the HKSAR Government. The recognition commends his long-term dedication to the training and development of the youth in uniformed groups, distinguished community services, and support to the promotion of culture and sports.

Recipient of the awards:
Dr Michael Li Ying Hung
Doctor of Engineering (2006)

Article and photo are provided by Dr Y.H. Li

MILESAA Members

MILESAA membership promotional programmes have been carried out since August 2011. We encourage members whose subscriptions have expired to renew their membership. Members of the Executive Committee introduced the objectives of MILESAA and the benefits of

joining MILESAA and the Federation of The Hong Kong Polytechnic University Alumni Associations (FHKPUAA). We would like to take this opportunity to welcome the new members of our growing family.

New Member	Year of Graduation	Programme
Ms Chaing Ching Yi	2011	MSc in Technology Management
Mr Cheng Wai Chin	2011	BSc (Hons) in Industrial Quality Management
Mr Cheng Zheng	2010	BSc (Hons) in Logistics Engineering & Management
Mr Cheung Kam Yiu	1978	HD in Production and Industrial Engineering
Mr Cheung Kwan Sing	2012	BSc (Hons) in Product Engineering with Marketing
Mr Cho Chi Hang	2011	BSc (Hons) in Industrial Quality Management
Mr Chu Heng Keong	2012	BSc (Hons) in Industrial Quality Management
Mr Chun Lap Tak	2014	BSc (Hons) in Industrial Quality Management
Ms Fan Mingshi, Doree	2011	MSc in Engineering Business Management
Ms Fung Sin Yu	2013	BSc (Hons) in Product Engineering with Marketing
Mr Fung Sui Hei	2007	MPhil in Manufacturing Engineering
Mr Fung Yiu Chung	2014	BSc (Hons) in Industrial Quality Management
Mr Kot Wai Kei, Ricky	2014	MPhil
Mr Lai Tsz Pan	2011	BEng (Hons) in Product Engineering with Marketing
Ms Lam Yin Ling	2001	MSc in Manufacturing Engineering
Ms Law Pik Yi	2011	MSc in Industrial Logistics Systems
Mr Lee Ho Kei, Ricky	2013	MSc in Technology Management
Mr Lee Ping Kee	1991	HC in Manufacturing Engineering
Mr Leung Cho Tak	2012	BSc (Hons) in Industrial Quality Management
Mr Li Chun Yin, Ronald	2013	BSc (Hons) in Double Degree Major in Industrial and Systems Engineering
Ms Li Siu Wai	2011	MSc in Knowledge Management
Mr Liu Bing	2013	PgD in Engineering Business Management
Mr Luo Kui	2013	MSc in Engineering Business Management
Ms Mak Kam King	1981	HD in Production and Industrial Engineering
Mr Ng Keng Fai, Michael	1983	HD in Production and Industrial Engineering
Ms Shi Wei	2013	MSc in Engineering Business Management
Mr Sun Hao	2013	PgD in Engineering Business Management
Mr Tang Tik Wai	2014	BSc (Hons) in Industrial Quality Management
Mr Tong Wai Ming	2011	BEng (Hons) in Product Engineering with Marketing

MILESAA Members (cont'd)

New Member	Year of Graduation	Programme
Mr Tsang Kok Ho	2011	BEng (Hons) in Product Engineering with Marketing
Mr Tsoi Siu Ki	2005	MPhil in Manufacturing Engineering
Mr Wang Tang Kwan	2012	BSc (Hons) in Product Engineering with Marketing
Mr Wong Chiu Lap	1985	HC in Production and Industrial Engineering
Mr Wong Wai Yin, Donald	2004	BEng (Hons) in Product Engineering with Marketing
Mr Xu Dong	2011	MSc in Knowledge Management
Ms Yang Siliu	2013	MSc in Engineering Business Management
Mr Yeung Chi Hang	2011	MSc in Technology Management
Ms Yun jia	2013	MSc in Engineering Business Management
Mr Zheng Pengfei	2000	PhD

(In English surname alphabetical order)

MILESAA Scholarship 2010-2011

To recognize the outstanding academic merits and achievements of undergraduate students of the Department of Industrial and Systems Engineering, four

full-time undergraduate students received the MILESAA Scholarship Awards for academic year 2010-2011. They are:

Awardee	Programme
Miss Cheung Hiu-yan	BEng (Hons) in Industrial and Systems Engineering
Miss Cheung Wing-fong	BEng (Hons) in Industrial and Systems Engineering
Mr Chan Kai-lok	BSc (Hons) in Logistics Engineering and Management
Miss Ho Kwai-yin	BSc (Hons) in Enterprise Engineering with Management

Each awardee received a cash award of HK\$2,300, in addition to a 10-year ordinary membership to the MILESAA amounting to HK\$200. The presentation of MILESAA Scholarship 2010-2011 was held on 19 November 2011.

Two awardees attended the presentation to receive the Certificate of MILESAA Scholarship from Mr Dave Chong, Chairman of MILESAA.



Awardees Cheung Hiu-yan (left) and Ho Kwai-yin (right) received their certificates from Mr Dave Chong, Chairman of MILESAA.

Family Day Fun Tour (家庭同樂一天遊)

11 September 2011 (Sunday)

A one-day family tour jointly organized by MILES Alumni Association of The Hong Kong Polytechnic University (MILESAA), and The University of Warwick and The Hong Kong Polytechnic University Manufacturing Alumni Association (IGDSAA) was successfully held on 11 September 2011.

Thirty-eight participants, including members and their families, joined the tour. Four main tourist points were visited, including the following:

- (i) Kam Hing Noodle Cultural Museum 錦興粉麵廠文化博覽館
- (ii) Kam Tin Flea Markets 錦上路跳蚤市場

(iii) Lau Fau Shan 流浮山

(iv) Green Land 天水圍綠田園

Despite the scorching weather, the family tour brought together alumni members and their families. Aside from enhancing our knowledge on noodles, the family tour allowed the participants to interact and share delightful experiences over the delicious lunch served. Moreover, the children enjoyed the gifts they received from Chairman Dave Chong. Overall, the tour was successful and greatly impressed everyone.



Group photo in Green Land



Century-old agricultural utensils

Family Day Fun Tour (家庭同樂一天遊)

11 September 2011 (Sunday) (cont'd)



The kids fed the cows and sheep with grass in Green Land.



The kids hunkered to catch the golden fish.



The instructor taught the kids how to make noodles.



MILESAA Chairman - Dave Chong delivered a welcome speech during lunch.



The kids received toys sponsored by Chairman Dave Chong.

Prepared by Mr John Chan

Technical Seminar on Theory of Constraints, Lean, and Six Sigma (TOCLSS)

24 September 2011 (Saturday)

MILESAA and the Manufacturing and Industrial Engineering Section (MIES) of The Institution of Engineering and Technology Hong Kong (IET Hong Kong) jointly organized a technical seminar on 'Theory of Constraints, Lean and Six Sigma (TOCLSS)' on 24 September 2011. The seminar was attended by 100 participants, including 52 IET members, 16 MILESAA members, and 5 engineering students; the rest are members of supporting organizations.

A welcome speech delivered by MILESAA Chairman Mr Dave Chong marked the commencement of the event. Four distinguished speakers were invited to deliver talks on the different perspectives of TOCLSS:

- **'The Recent Development of TOCLSS'**
by Dr Y.K. Chan, Chairman of the Six Sigma Institute
- **'Turbo Your Lean and Six Sigma Implementation by TOC Thinking Process'**
by Mr Henry So, President of the Six Sigma Society of Hong Kong

- **'Case Study on Process Improvement'**
by Ms Kelly Wong, a Six Sigma Practitioner
- **'Certification of Lean and Six Sigma Professionals'**
by Dr Albert Tsang, Senior Teaching Fellow, Department of Industrial and Systems Engineering of The Hong Kong Polytechnic University

The presentations were followed by a panel discussion. A number of practical and constructive questions were raised and discussed during the session. The active involvement of the participants during the discussion showed their great interest in the issues related to TOCLSS.

The seminar brought together technical professionals, academics, and practitioners to share their views on the application of TOCLSS. The event was successful and well received by the participants.



Mr Dave Chong, Chairman of MILES Alumni Association of The Hong Kong Polytechnic University (MILESAA) (left), presented the Certificates of Appreciation to the speakers, including Dr Y.K. Chan (top, left), Mr Henry So (top, right), Ms Kelly Wong (bottom, left), and Dr Albert Tsang (bottom, right) for their support to this seminar.

2011 Annual General Meeting and Luncheon Talk on 'Grape Wine Tasting for Beginners' 19 November 2011 (Saturday)

The MILESAA 2011 Annual General Meeting (AGM) was held on Saturday, 19 November 2011 at the Staff Club Restaurant, The Hong Kong Polytechnic University. Twelve members joined the AGM.

The Luncheon Talk on 'Grape Wine Tasting for Beginners' was held immediately after the AGM. Twenty-six members of the MILESAA Executive Committee, the Permanent Honorary Chairman, the Honorary Chairman, the Honorary Legal Advisor, alumni, and ISE students joined the fun event.

A wine professional, Mr Eden Wong of Wine One, was invited to deliver a casual talk on wine appreciation. For the tasting portion of the event, four different types of red wine and white wine were selected during the luncheon.

To recognize the outstanding academic merits and achievements of the undergraduate students of ISE Department, four full-time undergraduate students were granted the MILESAA Scholarship Award 2010-2011. On the same day, two awardees attended the presentation of the MILESAA Scholarship 2010-2011 to receive the Certificate from Mr Dave Chong, Chairman of MILESAA.



To give participants an indication of the wine's origin and grape variety, different aromas of white and red wine were circulated for smelling (left). Participants also tasted four different types of white and red wines (right).



All participants, including members of the MILESAA Executive Committee, the Head of the ISE Department, guests, speaker, alumni, and students, enjoyed the lunch. A group photo was taken at the end of the event.

Technical Seminar on Creating a Clean Environment Overview of Carbon Emission Reduction 26 November 2011 (Saturday)

MILESAA and the Manufacturing and Industrial Engineering Section (MIES) of The Institution of Engineering and Technology Hong Kong (IET Hong Kong) jointly organized a technical seminar on 'Creating a Clean Environment: Overview of Carbon Emission Reduction'. The event was successfully held on 26 November 2011. Fifty participants attended the seminar, including six MILESAA members.

Ms June Lei from China Shenzhen Emission Rights Exchange presented the background for carbon emission reduction, as well as the theory and platform for trading carbon emissions. Based on her discussion, climate change has a created political agenda for the United Nations, and developed and developing countries are working on the reduction of carbon emission, thus creating business for trading carbon emissions.

Mr Dewitt Chik from the Low Carbon Design Society of Hong Kong discussed the impact of greenhouse gases on the environment, such as the increase in the overall temperature of the Earth and the melting of ice caps in the Arctic Ocean. In his discussion, Mr Chik explained how overconsumption creates wastes around the world, and pointed out how low carbon design helps reduce carbon emissions, thereby mitigating the environmental impact on the Earth.

Mr Kenneth Yu from the MIES Committee of IET Hong Kong presented the Clean Development Mechanism (CDM). According to Mr Yu, CDM can contribute to the attainment of a developing country's sustainable development objectives through the following:

- Transfer of technology and financial resources;
- Sustainable ways of energy production;
- Increasing energy efficiency and conservation;
- Poverty alleviation through income and employment generation; and
- Local environmental side benefits.

A panel discussion with a Q&A session was held after the talks. The audience fully participated in and enjoyed the Q&A session.

Mr Eddy Wu, a member of the MILESAA Executive Committee, conducted a membership drive session before the end of the event. On behalf of MILESAA, Mr Wu presented the Certificates of Appreciation to the speakers for their contribution to the event.



Group photo taken at the end of the seminar



A panel discussion with a Q&A session was chaired by Dr Benny Cheung (1st from left), member of the MILESAA Executive Committee and Chairman of the MIES IET HK. Interesting questions were addressed by the three speakers.

Technical Seminar on Information Technology Forum for Hong Kong Industries 2012

14 January 2012 (Saturday)

A technical seminar on 'Information Technology Forum for Hong Kong Industries 2012' was jointly organized by MILESAA, Department of Multimedia and Internet Technology (MIT) of Lee Wai Lee (LWL) of the Hong Kong Institute of Vocational Education (IVE), Manufacturing and Industrial Engineering Section (MIES), Informatics and Control Technologies Section (ICT), and Electronics and Communications Section (ECS) of the IET HK. The event, which was held on 14 January 2012, was attended by 50 participants, including 9 MILESAA members and ISE students.

The objective of the IT Forum was to critically review the top IT challenges faced by Hong Kong industries. The forum discussed and explored the strategies for upgrading and strengthening the Hong Kong IT industry, and creating more job opportunities in Hong Kong.

Three distinguished speakers were invited to the seminar. The speakers and their respective topics were:

– ***'Can We Build NEXT Super IT Brand in Hong Kong?'***

Ir Dr Hon. Samson Wai Ho Tam, Member of the Legislative Council (IT)

– ***'The Prospect of Smart Phone Entertainment in the Multimedia Industry.'***

by Mr Kenneth Chau, Managing Director, iMusic Tech Limited

– ***'What's Next for Hong Kong Internet Industry?'***

by Dr Johnny Kit Chong Ng, Chairman, Goldford Venture

A panel discussion led by Ms Justina Ho, the Chairperson of IET Hong Kong (ICT Section), was held after the talks. Lastly, Mr Dave Chong, Chairman of MILESAA, was invited to deliver the closing speech.

This event invited 12 supporting organizations, including professional and academic institutions. The forum brought together technical professionals and personnel to share their views on IT. The overall response was positive and encouraging.



Mr Dave Chong (3rd from left), Chairman of MILESAA, Mr Kenneth Chau (4th from left), Dr Samson Tam (4th from right), Dr Johnny Ng (3rd from right), and Ms Justina Ho (2nd from right), posed for a photo with other guests at the end of the seminar.

Prepared by Ir M.K. Lam

Technical Seminar on the Standard for Aerospace Quality Management System (AS9100)

18 February 2012 (Saturday)

MILESAA, as one of supporting organizations, participated in the technical seminar on the Standard for Aerospace Quality Management System (AS9100). The event was jointly organized by the Manufacturing and Industrial Engineering Section (MIES) of The Institution of Engineering and Technology Hong Kong (IET Hong Kong), and The Plastics Technology Centre of the Hong Kong Productivity Council (HKPC).

The seminar was successfully held on 18 February 2012 at HKPC. Fifty-eight participants attended the event, including ten MILESAA members and ISE students.

The seminar aimed to introduce the AS9100 Quality Management Standard. Mr Samson Suen, a senior consultant of HKPC, was invited to give an opening speech.

Three professional experts were invited as guest speakers. Two consultants from HKPC, Mr Horace Leung and Mr Alex Chau, introduced the requirements of AS9100 in Hong Kong. Mr Paul Tsang from Esterline Technologies Corporation, an aerospace component manufacturing company, shared his experience in AS9100 implementation.

A panel discussion, chaired by Mr Samson Suen, was held immediately after the talks. Constructive questions were discussed.

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



Ir M.K. Lam (4th from left), Mr Samson Suen (5th from right), Mr Horace Leung (6th from left), Mr Alex Chau (1st from right), and Dr Benny Cheung (5th from left), posed for a photo with other guests at the end of the seminar.

Prepared by Ir M.K. Lam

Technical Seminar on Product Testing and Certification 2012

24 March 2012 (Saturday)

MILESAA, the Manufacturing and Industrial Engineering Section (MIES) of The Institution of Engineering and Technology Hong Kong (IET Hong Kong), and Department of System Engineering and Engineering Management of City University of Hong Kong jointly organized the technical seminar on Product Testing and Certification 2012 on 24 March 2012.

The event was attended by 132 participants, including 8 MILESAA members and ISE students.

The seminar introduced food safety, certification, and testing to participants. The invited speakers shared their experiences in the food industry, including food testing for radioactive contamination.

Ir M.K. Lam, Vice Chairman of MILESAA, delivered the welcome speech. Four distinguished speakers delivered talks on different perspectives of food product testing and certification. They are:

- Ir Dr K.S. Chin, Associate Professor, introduced the programme entitled BEng in Total Quality Engineering (BETQE) in response to the industry demand.

- Ms Janice Chan, an independent auditor, introduced ISO22000 Food Safety Management System.

- Dr K.S. Leung, Visiting Associate Professor of the Department of Applied Biology and Chemical Technology of The Hong Kong Polytechnic University, introduced the concept of radioactive contamination detection in food.

- Mr Jacky Lo, a Senior Laboratory Manager of Castco Testing Centre Ltd., provided an overview of food label regulation and requirements in Hong Kong.

A panel discussion followed after the presentations. Ir Dr Lotto K.H. Lai, Chairman of the HK Society for Quality, facilitated the panel discussion. Several practical and constructive questions were raised and discussed during the session.

The seminar was successful and well received by the participants. The seminar brought together technical professionals, academics, and practitioners to share their views on future developments in food safety, certification, and testing.



Group photo taken after the seminar shows (from left) Ms Julian Lee, Ir Dr Lotto K.H. Lai, Ir S.L. Mak, Mr C.K. Yim, Dr K.S. Leung, Mr Ken Lam, Mr Jacky Lo, Dr K.S. Chin, Ms Janice Chan, Ir M.K. Lam, Dr George H.K. Lau, Ir Peter K. Si and Mr Andrew C.Y. Cheng.

Prepared by Ir M.K. Lam

Academic Staff Achievements

Russian spacecraft carrying PolyU-made instrument blasts off

With the expertise and substantial experience in space tool development, Prof. K. L. Yung, Associate Head of the Department of Industrial and Systems Engineering (ISE), and his research and development team, have designed and manufactured an instrument called **Soil Preparation System (SOPSY)** for a joint China-Russia mission to Mars. The instrument blasted off at the Baikonur Cosmodrome in Kazakhstan on Wednesday, 9 November 2011 at 12:16 a.m. (Moscow time). This mission is called Phobos Grunt (or Phobos Soil). The mission aims to conduct in-situ analysis and bring soil samples from the innermost moon of Mars called Phobos back to Earth to study the origin of the solar system and the condition during the formation of Mars. The mission is also significant because China launched its first Mars satellite, Yinghuo-1, on the Russian spacecraft. Moreover, the mission marks the first strategic interplanetary collaboration between China and Russia.

SOPSY weighs 400 grams, and it is slightly larger than a cigarette pack. The instrument is capable of grinding and sifting Phobos rock to the size of less than 1 mm in diameter, and then plugging in the sifted rock of measured size for in-situ analysis. This procedure is a crucial step in understanding the evolution of the universe and the formation of the planet Mars.

Prof. Yung and his team have been working closely with IKI (Space Research Institute of the Russian Academy of Science) and the Russian aerospace company NPO Lavochkin to test the functionality of SOPSY under extreme environmental conditions. Dr Alexander V. Zakharov, Chief Scientist of the Space Research Institute of the Russian Academy of Science and Project Scientist of the

Phobos-Soil project, also visited ISE Department and discussed the stringent requirements for testing the qualifying model of this tool.

The department has accumulated a wealth of experience and facilities in developing space tools and for space agencies over the years. Prof. Yung also designed a number of space instruments, and the instruments are locally manufactured at the Industrial Centre in the University. The development of space tools dates back to 1995 with the launch of the Space Holinser Forceps for Russian astronauts working on the MIR Space Station. Prof. Yung designed and developed the Holinser Forceps, which function like a pair of dental forceps. In 2003, Prof. Yung also designed and developed the Mars Rock Corer that was carried onboard the Beagle 2 Lander, a Mars Express Mission spacecraft of the European Space Agency (ESA).



PolyU-made instrument: Soil Preparation System (SOPSY)



In the afternoon of 8 November 2011, Phobos Grunt was ready on the launch pad.



Around 2 a.m. (local time), the launch pad was opened—ready for ignition of the rocket.



On 9 November 2011 at 2:16 a.m. (local time), the rocket ignited and sent Phobos Grunt onto its course. The launch went smoothly.

Project from State Key Lab Nominated for State Scientific and Technological Progress Award

The Innovation and Technology Commission (ITC) of Hong Kong SAR nominated a research project from the Partner State Key Laboratory of Ultra-precision Machining Technology (PSKL of UMT) in the Department of Industrial and Systems Engineering to the National Office for Science and Technology Awards (NOSTA) to compete for the 2012 State Scientific and Technological Progress Award (SSTPA).

The project, 'Ultra-precision Machining Technology of Free-form Optics and Its Applications', is led by Professor Wing-bun Lee, Chair Professor of the Department of Industrial and Systems Engineering and Head of PSKL of UMT. The team members of the project include Dr Benny Chi-fai Cheung, Associate Professor and Associate Head of PSKL of

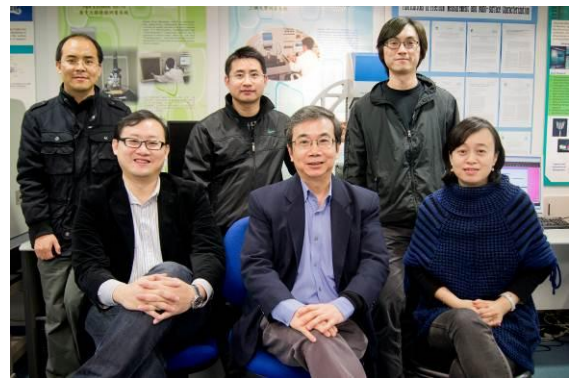
UMT, Dr Suet To, Associate Professor and Associate Head of PSKL of UMT, Dr Ling-bao Kong, Scientific Officer of PSKL of UMT, Dr Wen-kui Wang, Engineer of PSKL of UMT, and Mr Ka-chun Cheung, Manager of PSKL of UMT, Department of Industrial and Systems Engineering.

The SSTPA is one of the award categories under the State Science and Technology Awards initiated by the State Council to recognize and commend Chinese scientists and technologists for their dedication and achievements in science and technology.

For more information on the Awards, please visit <http://www.itc.gov.hk/en/ssta/awards.htm>.



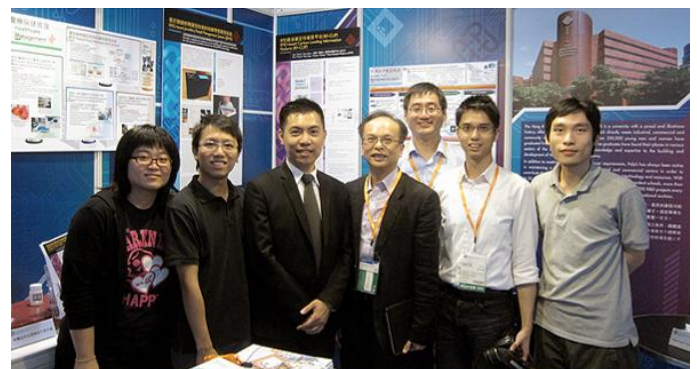
Partner State Key Laboratory of Ultra-Precision Machining Technology



Professor Wing-bun Lee (middle, front row) and his project team consisting of Dr Chi-fai Cheung (left, front row), Dr Suet To (right, front row), Dr Ling-bao Kong (middle, back row), Dr Wen- kui Wang (left, back row), and Mr Ka-chun Cheung (right, back row).

Collaboration on the Design of Intelligent Car Parking System Research Project

Dr W.H. Ip, Associate Professor of the Department of Industrial and Systems Engineering, and Sino Parking Services Limited, a subsidiary of Sino Group, collaborate on a research project in the design of an intelligent car parking system. An n-Tier Distributed Business Intelligent Architecture for the system and its associated technologies will enhance parking system efficiency and provide better customer service using state-of-the-art architecture. The system is predicted to be widely adopted in future car park service systems. The project received funding support of HK\$1M from Sino Parking Services Limited.



Dr W.H. Ip (4th from right) and his team

Scientists in ISE Department received the National Science Award from the Ministry of Education of the PRC

Prof. W.B. Lee, Dr Sandy To, Dr Benny C.F. Cheung, and Dr Wang Hao from the Partner State Key Laboratory of Ultra-precision Machining Technology (PSKL of UMT) received the 2011 Natural Science Award (Second Class) from the Ministry of Education of the PRC on 29 March 2012 at the Chinese University of Hong Kong in recognition of their remarkable achievements in basic cutting mechanics and chip formation in ultra-precision machining studies. Ultra-precision machining based on single-point diamond turning (SPDT) is an indispensable technology in the manufacture of high-precision components used in different high-tech industries, such as advanced optics, telecommunications, biomedical, and aerospace. Their research solved the key problems in ultra-precision machining, such as material anisotropy effect, shear angle prediction, material induced vibration, and so on.

The PSKL of UMT has been honored with the National Award from the Ministry of Education of the PRC for three straight years since the Ministry of Education opened the application for the award to local institutions in Hong Kong.

The research work of the team has received worldwide recognition and ranked top in terms of the number of papers published in the fields of 'Ultra-precision Machining' and 'Precision Machining' in Thomson Reuters Web of Knowledge database.



Prof. W.B. Lee (1st from left), Dr Sandy To (2nd from left), Dr Benny C.F. Cheung (2nd from right) and Dr Hao Wang (1st from right) received the National Science Award from the Ministry of Education of the PRC.

Student Achievements

ISE Students won the Championship and 1st Runner-up Honors in the Student Project Competition

Two student teams from the BEng (Hons) in Industrial and Systems Engineering of the Department of Industrial and Systems Engineering (ISE) participated in the 2012 Student Project Competition organized by the Hong Kong Society for Quality. The two teams won the championship and 1st runner-up honors. The members of the champion team include Mr Sun Ke, Miss Chen Na, Mr Hu Yijiu; meanwhile, the members of the team that won 1st runner-up honors include Mr Kang Yunyi and Miss Chang Yidi. The competition

is an annual event that aims to provide opportunities for university students to examine real-world issues in an organization and make recommendations to address those issues. ISE students have been winning the competition for three consecutive years. Aside from the champion and the 1st runner-up teams, seven other teams also participated in the competition. The other teams are from the Hong Kong University of Science and Technology, The University of Hong Kong, and City University of Hong Kong.



Mr Kwok Ming Cheung (2nd from left), Director of Vital-Health Livestock Development Limited, sponsor of the award, presents the prize to the champion team consisting of (from left) Sun Ke, Chen Na, and Hu Yijiu.



Mr Kwok (middle) presents the prize to the 1st runner-up team composed of (from left) Kang Yunyi and Chang Yidi.

PolyU Students' Debate Team won the Championship and 'The Best Debater Award' at the Hong Kong Inter-collegiate Debate Competition

PolyU students' Debate Team recently won the championship and 'The Best Debater Award' at the Hong Kong Inter-collegiate Debate Competition, co-organized by Radio Television Hong Kong (RTHK) and Hong Kong Federation of Students. The final-round matches were held on 14 April 2012 at the Hong Kong Cultural Centre, and the motion for the debate was 'The Individual Visit Scheme brings more benefits than harm to Hong Kong'.

Nine tertiary institutions participated in this year's competition. Other than our university, The Chinese University of Hong Kong, the Hong Kong Baptist University, The University of Hong Kong, City University of Hong Kong, Hong Kong University of Science and Technology, Hong Kong Institute of Education, Lingnan University and Hong Kong Shue Yan University also participated in the event.

We are very pleased to announce that one of members of the PolyU students' debate team is Lee Chi-yiu, currently a Year 3 student of BEng (Hons) in Product Engineering with Marketing of the Department of Industrial and Systems Engineering. Other team members include Tang Ho-lap [BSc (Hons) in Biomedical Engineering] who also won Captain and Winner of 'The Best Debater' award, Kwan Man-ye [BA (Hons) in Bilingual Studies], and Chan Fu-chung [HD in Building Services Engineering].

The Debate Team is currently affiliated with the General Education Centre, and its advisor is Dr Yu Kam Por. The team is grateful to former members, including the alumni, who had sacrificed a lot of their personal time to help the team prepare for all its matches.

We would like to congratulate the team, and all who were involved for the wonderful victories. We are very proud of them!



1st Runner-up for Most Supportive Group Award of PolyU Running Team for the Standard Chartered Hong Kong Marathon 2012

The Department of Industrial and Systems Engineering is delighted to receive the 1st Runner-up for Most Supportive Group Award of PolyU Running Team for the Standard Chartered Hong Kong Marathon 2012. Eighty-six students signed up to run for PolyU and the Department in this annual world-renowned race. 'From the active participation of students, we know that our Department is full of young and energetic men and ladies who are aware of the importance of exercise and a healthy lifestyle. Moreover, they are able to strike a balance between study and whole person development. We are so proud of our students!' said Prof. HC Man, Head of the department.



Prof. H.C. Man (left), Associate Dean of the Faculty of Engineering and Head of the Department of Industrial and Systems Engineering, receives the award from Prof. Walter Yuen (right), Vice President (Academic Development).

ISE Students Awarded 'Merit Award for Innovation' in GSC: PolyU Pre-Challenge 2011-12

Global Student Challenge (GSC) is an international business plan competition organized by PolyU. The pre-challenge aims to foster an entrepreneurship spirit among PolyU students while preparing them for the ever-changing and highly competitive business world. The competition was held on 21 March 2012.

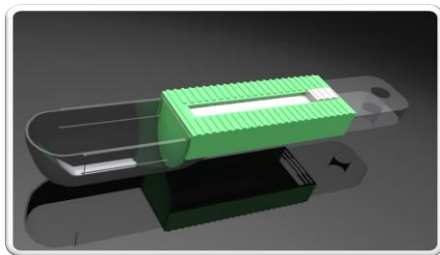
Twenty-eight multi-disciplinary teams, comprising 99 students, signed up for the contest. Judges were impressed by the collective talents of student competitors, and the initiative to put their passion and knowledge into practice, adding real value to our community while opening limitless opportunities for their own development.

We are very pleased to announce that two student teams from the Department of Industrial and Systems Engineering (ISE) were bestowed the 'Merit Award for Innovation' in this competition.

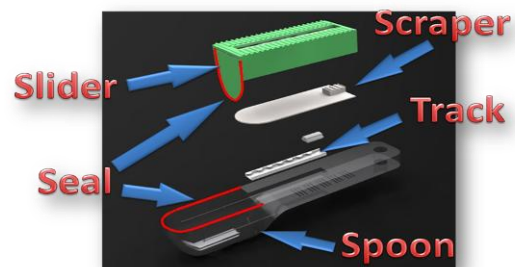
The members of one of the winning teams are Wong Kai-yin, Wong Cheung-wing, Wong Chiu-shing, and Sze Tsz-hung, all are current students of BEng (Hons) in Product Engineering with Marketing (Top-Up) of ISE Department. Their project, entitled '**The Joy of Cooking**', aimed to provide people with simple, comfortable, environment

friendly, and good quality products at reasonable prices. The students designed a product called '**e-measure**', which is a volume adjustable measuring spoon. The meaning of 'e' is easy and enjoy, and 'measure' refers to the purpose of the product, which is to measure things. 'e-measure' helps cooking beginners obtain an accurate volume of seasoning to achieve culinary success.

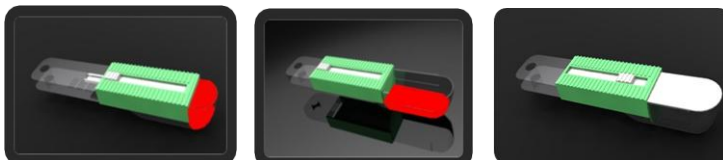
The members of the other winning team include Chan Hing-sum Hansen, Cheung Kam-pan, and Yung Mei-yuk, all are current students of Double Degree Programme in Business Administration and Engineering, ISE Department, and Chan Ka-ming from ME Department. Their project is '**Omni-Share**', a platform that blends the academic tools and social networking elements. Social networking websites are popular among teenagers today. People like social networking. Social networking has other useful tools, such as the discussion room and file exchange functions, which support students enrolled in the blackboard system or online courses. However, students are not using them for their studies. Instead, they prefer to use Facebook during the lesson. Four full-time undergraduate students formed a team to investigate this problem; they consequently developed a solution—'Omni-Share'—for students as well as schools.



Outlook of 'e-measure'



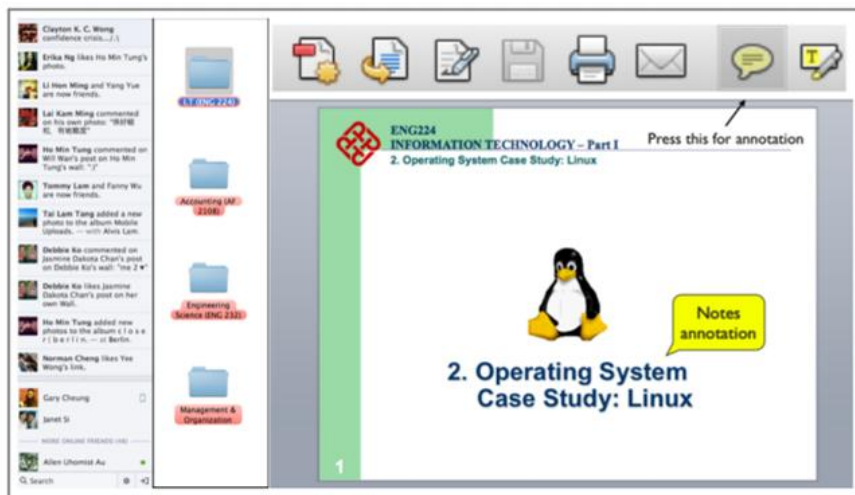
Components of 'e-measure'



How to use 'e-measure'	
Step 1	Set the slider to the desired level by moving along the track.
Step 2	Fill up the ingredients as much as possible.
Step 3	Push the scrap to scrap off the surplus.
Step 4	Pull back the slider, and scrap without fear of spilling.

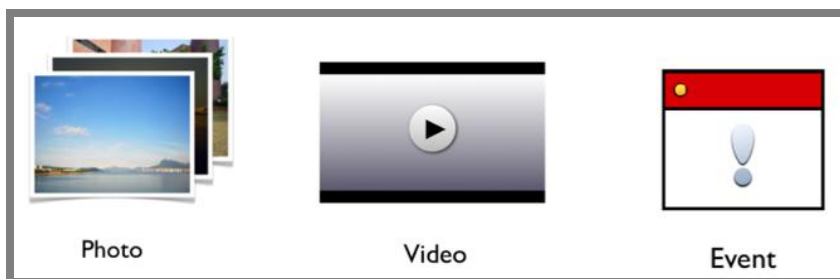
ISE Students Awarded 'Merit Award for Innovation' in GSC: PolyU Pre-Challenge 2011-12 (cont'd)

Omni-Share



The picture illustrates the user-interface of one of the core ideas of 'Omni-Share': Integrate the learning tools and social-networking element into one platform. On the left-hand side, a bar shows the status update of the user's friend; subject folders and opened notes are on the right-hand side.

The three most popular social networking elements, such as sharing photos, sharing videos, and holding events, were incorporated into the new platform.



Facebook is the most popular social networking website in Hong Kong. People love using it to do the three things mentioned above. However, holding events through Facebook has been challenging. Although many people may be invited to an event, only a few will turn out and reply to the 'RSVP' invitation. To differentiate Omni-Share from Facebook, in terms of social networking elements, **'Event' is the killer app.**

The killer app **'Event Calendar'** is a useful tool for the students and the school for organizing any activity. The tool combines the academic schedule and the recreational schedule in a single place. Students could determine whether they can attend the event or not, and therefore increasing the possibility that the user will press the 'attend button'. This would ease the difficulty in organizing and planning for an event.



Team members of 'The Joy of Cooking' (left) and 'Omni-Share' (right) received the awards at the Awards Presentation Ceremony on 21 March 2012.

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