



E-News February 2010

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Engineering Dean Officiating at the Opening Ceremony of Wofoo Millennium Entrepreneurship Programme



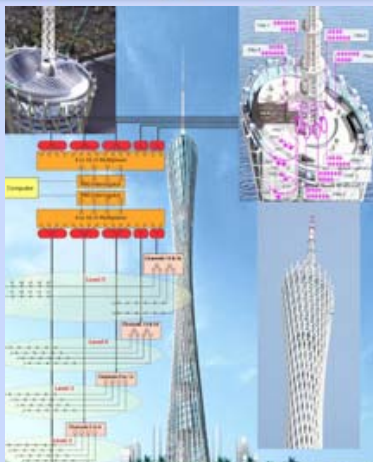
Professor Alex Wai speaking on PolyU's creating and developing application-oriented projects and products to enrich life.

Professor Alex Wai, Dean of Faculty of Engineering attended the opening ceremony of Wofoo Millennium Entrepreneurship Programme on 23 January 2010. During the ceremony, Professor Wai shared with over 600 students, mentors, teachers and parents on how PolyU created and developed impressive application-oriented projects and products to enrich life.

The Programme was organised by Wofoo Social Enterprises, Hong Kong Youth Institute and supported by the Industrial Centre, PolyU. It is a non-profit making annual competition aiming at providing opportunities for secondary school students to extend their learning beyond schools through social study projects with a designated theme. The theme this year is "Glowing Life, Growing Opportunities"(優化生活 · 無限商機).

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Optical Fibre Sensor Network Developed by the Department of Electrical Engineering being Used to Monitor the Canton Tower, Guangzhou, China



The 610-meter tall Canton Tower is the tallest television and sightseeing tower on earth and is among the world's top ten tallest buildings. It will be used to broadcast the 16th Asian Games to be held in Guangzhou in November 2010. A long-term structural health monitoring system consisting of over 800 sensors, designed by The Hong Kong Polytechnic University, was installed on the Canton Tower. The monitoring system also includes an optical sensor network, designed and constructed by Prof. Hwayaw Tam's team, which comprises over 10 km of optical fibres and more than 200 novel fibre-optics sensors to monitor the temperature, strain and inclination of the tower.

Department of Computing Honoured with a Bronze Award in the Brussels Innova 2009



Professor Jiannong Cao, Associate Head of the Department of Computing and Director of the Internet and Mobile Computing Lab, along with his team, won the Bronze Award in the Brussels Innova 2009 with the project "HAWK: Heterogeneous Advanced Wireless Networks". The awarded project features a HAWK platform with practical technologies for supporting seamless communication and mobility for ubiquitous Internet access over heterogeneous wireless networks.

Brussels Innova is an annual event founded by Belgium in 2007. More than 40 booths from 15 countries in Europe, the Middle East, and Asia were featured alongside PolyU's booth at Brussels Innova 2009 from 19 to 21 November 2009. The event included exhibitions, contests, as well as consortiums and seminars on developing small and medium-sized enterprises. Ideas and practical tips were shared on patent and brand issues, bridging innovations and business.

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Students Winning Energy Institute Best Final Year Project Award



From left: Dr CS Cheung, Associate Professor of Department of Mechanical Engineering; Miss Chung Ho Ming; Miss Luk Wai Ying; and Professor Dennis Leung, Committee Member, Energy Institute, HK branch.

Students Miss Chung Ho Ming, Miss Luk Wai Ying and Miss Shiu Ka Man of the Department of Mechanical Engineering teamed up for their Final Year Project "Design of an Environmental Friendly Energy Converter" which earned them a second place in the 2008-09 Best Final Year Energy Project Competition.

Organised by the Energy Institute (HK Branch), the Best Final Year Energy Project Competition has the objective of recognizing the achievements of students from local tertiary education institutions for their outstanding final year energy or fuel related projects.

The team conducted a detailed product design and development process for an energy converter, using peltier modules for converting waste heat into electricity. They developed two products – an eco-blanket for industrial applications and an eco-container for domestic and commercial applications. The creative idea and engineering knowledge applied to environmentally friendly project impressed the Panel which comprised Ir. Roger Lai, former Director of EMSD and Advisor of EI (HK Branch), Dr H.F Chan, Advisor of EI (HK Branch), Ir. Colin Chung, Immediate Past Chairman, EI (HK Branch) and Ir. Raymond Fong, Principal Consultant, HKPC, Vice-chairman, EI (HK Branch).

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Students Winning RFID Award



From left: Project supervisors Mr Ting Siu Lun and Dr Kwok Siu Keung with students Miss Leung Ka Man, and Mr Wong Chi Kit.

Students Miss Cheung Wai Lan, Miss Leung Ka Man, Miss Ng Suk Yee and Mr Wong Chi Kit of the Department of Industrial & Systems Engineering received the Silver Award in the Hong Kong RFID Awards U-21 RFID Awards 2009 (Undergraduate Stream) organised by GS1 Hong Kong.

The winning project "RFID-based Drug Management System (DMS) for Medical Organisations" aims at improving both drug and patient safety in hospitals and clinics. Under the supervision of Dr Kwok Siu Keung and Mr Ting Siu Lun, the students developed an RFID-based DMS that modifies clinic operations by tracking drugs throughout the replenishing and dispensing processes. The DMS is able to detect whether the drugs have been placed in the correct container, provides users with real-time drug information, and issues an alert when the expiry date is reached.

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Department Brought CEOs Together for Engineering Development Discussion



From left: Dr Alan KT Lau (Associate Professor of Department of Mechanical Engineering), Ir WK Chow (Technical Manager, Gas Supply Projects, CLP Power Hong Kong Limited); Chairman of Institution of Mechanical Engineers), Dr CW Tso (General Manager (Projects) of The Hongkong Electric Co Ltd.), Mr Simon CC Mak (Director of Region Fine (HK) Ltd), and Dr Simon CO Ho (Managing Director of Watfield Technology Ltd).

With the support of Hang Seng Bank (Green Bank), the Institution of Mechanical Engineers (Hong Kong) and the Department of Mechanical Engineering jointly organised the CEO Forum on 23 January 2010.

The Forum brought together over 60 senior executives of local engineering and product development enterprises and fellows of the Institution of Mechanical Engineers (FIMechE). They shared their views on the future opportunities for engineers, product designers and project managers after the opening of Guangzhou-Shenzhen-Hong Kong Express Rail Link. Guest speaker Mr Wong Fan Fung, Chairman of Bunhoi Group recognised as ‘中國企業改革十大傑出人物’ last year, delivered a speech on “Opportunities for Small and Medium Enterprises as well as Engineers after the Opening of Guangzhou-Shenzhen-Hong Kong Express Rail Link”, followed by sharing by Ir Dr the Hon Raymond Ho Chung Tai, a member of the HKSAR Legislative Council. The Forum was well received.

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Alumni Gatherings



Alumni had tons of fun at the gathering.

The Department of Electronic & Information Engineering (EIE) held its third Alumni Gathering in November 2009. Over 180 participants joined the event. The first EIE Chinese Mainland Alumni Gathering was also held in Guangzhou on 11 January 2010.

Graduates of the Department are invited to participate in upcoming alumni gatherings. Please sign up at the Department's homepage (<http://www.eie.polyu.edu.hk/alumni/login.php>).

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Electronic & Information Engineering Team Excelling in Dragon Boat Race



EIE Dragon Boat Team.

25 students, staff members and alumni of the Department of Electronic & Information Engineering (EIE) teamed up to compete for the Stanley Dragon Boat International Championships organised by the Stanley Dragon Boat Association at the Stanley Main Beach in 2009. The team succeeded in getting into the Final.

The EIE Dragon Boat Team will participate in the Stanley dragon boat races again on 21 May and 16 June 2010. Alumni and students of EIE please come and give their support to the team.

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Study Tour to Xian



The Department of Industrial & Systems Engineering organised an 8-day study tour to Xian, China in January 2010 with participation of 50 students and 3 staff members. The study tour included visits to the Xian Northwest Polytechnic University and the Xian Jiaotong University where Prof. Sun Linyan, Department of Industrial Engineering of Xian Jiaotong University, delivered a talk on the current development of the industrial engineering discipline in the Chinese mainland. Besides academic activities, students also visited factories, including a heavy truck manufacturing company, a blower manufacturing company, and the Xian Aeroplane Manufacturing Company. The visits to the universities provided students with opportunities to share and exchange views with mainland students, whilst visits to industries exposed students to the actual manufacturing process and operations. Students got many chances to practise and improve their Putonghua too.

Study Tour to Harbin



Students visited the Harbin Ice and Snow World.

8 students from the Faculty together with students from other 6 universities in Hong Kong joined a study programme organised by the Harbin Institute of Technology from 24 to 31 December 2009. This was an excellent opportunity for students to learn more about the cultural, social and technological development of the Chinese mainland and build networks with mainland students and students from other local universities. The group visited the Robotics Institute of Harbin Institute of Technology, Aerospace Museum, Daqing Oilfield, Harbin Ice and Snow World, etc.

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Admission for September 2010 Entry

Taught Postgraduate Programmes

Engineering Doctorate	工程學博士學位
Master of Science in Automotive Engineering Design	汽車工程設計理學碩士學位
Master of Science/Postgraduate Diploma in E-Commerce	電子商貿理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Electrical Engineering	電機工程學理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Electronic and Information Engineering	電子及資訊工程學理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Engineering Business Management /Manufacturing Systems Engineering	工程商業管理理學碩士學位/深造文憑 /製造系統工程理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Industrial Logistics Systems	工業物流系統理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Information Systems	資訊系統理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Information Technology	資訊科技理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Integrated Engineering	綜合工程學理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Mechanical Engineering	機械工程學理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Software Technology	軟件科技理學碩士學位/深造文憑
Master of Science/Postgraduate Diploma in Technology Management	科技管理理學碩士學位/深造文憑

Undergraduate Programmes

Double Degree in Business Administration and Engineering	工商管理及工程學雙學位
Double Degree in Computing and Management	More Info 電子計算及管理學雙學位
Bachelor of Arts (Honours) in Computing (Part-time)	電子計算(榮譽)文學士學位
Bachelor of Engineering	工學士學位
Bachelor of Engineering (Honours) in Electrical Engineering	電機工程學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Electrical Engineering (Part-time)	電機工程學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Industrial and Systems Engineering	工業及系統工程學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Mechanical Engineering	機械工程學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Mechanical Engineering (Part-time)	機械工程學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Product Engineering with Marketing	產品工程兼市場學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Product Engineering with Marketing (Part-time)	產品工程兼市場學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Product Analysis and Engineering Design	產品分析及工程設計學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Product Analysis and Engineering Design (Part-time)	產品分析及工程設計學(榮譽)工學士學位
Bachelor of Engineering (Honours) in Transportation Systems Engineering	運輸系統工程學(榮譽)工學士學位
Bachelor of Science (Honours) in Enterprise Engineering with Management	企業工程兼管理(榮譽)理學士學位

Bachelor of Science (Honours) in Industrial Quality Management (Part-time)	工業品質管理學(榮譽)理學士學位
Bachelor of Science (Honours) in Logistics Engineering and Management	物流工程及管理(榮譽)理學士學位

Higher Diploma Programmes

Higher Diploma in Electrical Engineering	電機工程學高級文憑
Higher Diploma in Electronic and Information Engineering	電子及資訊工程學高級文憑
Higher Diploma in Industrial and Systems Engineering	工業及系統工程學高級文憑

Forthcoming Events

Society of Computing Studies Annual Dinner

25 February 2010, 6:30pm

Hong Kong First Lego League Robotic Tournament

27 February 2010, 9:00am

Information Seminar - MSc in Industrial Logistics Systems

27 February 2010, 2:30pm - 4:00pm

2010 Knowledge Management Conference

30 March 2010, 9:00am - 6:00pm

Hong Kong Most Admired Knowledge Enterprise (MAKE) Award 2010 and Outstanding Knowledge Management Project Award 2010

Deadline for application - 7 May 2010

Participation of EIE students in Stanley Dragon Boat Race

21 May 2010, 9:00am - 4:00pm

16 June 2010, 8:00am - 6:30pm

Enquiries: Miss Carol Yuen (T: 2766 4184)

Department of
Computing

Department of
Electrical Engineering

Department of
Electronic and Information Engineering

Department of
Industrial and Systems Engineering

Department of
Mechanical Engineering