Don't be the Missing Link ...

HKUST, he had undertaken research at the received his PhD, for giving him a quality education and prestigious members of the Chinese Academy of Sciences. 

people's lives. It will also encourage greater interaction on society.

innovations that have had a global impact on improving present at Mr Ma in December for his success in leadership and creativity was awarded to Mr Pony Huateng.

A prestigious award newly set up by the people's lives. It will also encourage greater interaction between the School and industry.

Solutions to Grand Challenges of the 21st Century, signal the produce 21st century engineers who will inspire, innovate, and be by our specially created curriculum, which maximizes the way of life, members of the School can be rightly proud of how joy to look back over what has already been accomplished by the

While looking forward to exciting times in 2012, it is also a great initiative. The launch of the School's annual HKUST Technology

Award Honors Chairman and CEO of Tencent

02

Competition

Secondary Schools Bridge Demonstration

HKUST Tin Ka Ping Hall

Competition

Electronic and Computer Engineering Final

Calendar of Events

UNESCO-IHE Institute of Water Education which has found it

Process perfectly integrates the freshwater system and

Technology in the Netherlands and the University of Cape

has been recognized by the International Water Association

emissions. It also reduces sewage treatment costs and space energy consumption as well as odor and greenhouse-gas

Novel technology that successfully minimizes the adverse

■

□ Prof Mingxiang Wang

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□ Prof Xiang Wan

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□ Prof Ben Chan

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□ Prof Ilias Dimitrakopoulos

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□ Prof Qian Zhang

■

□ Prof Reginald A. Edwards

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□ Prof S. W. Chan

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□ Prof W. K. Pang

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□ Prof W. H. Lo

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□ Prof K. C. Leung

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□ Prof L. W. Li

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□ Prof C. M. Lau

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□ Prof Y. S. Liu

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□ Prof L. S. Wu

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□ Prof C. S. Leung

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□ Prof K. L. Leung

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□ Prof C. Y. Yeung

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□ Prof S. C. Leung

■

□ Prof C. W. Cheung

■

□ Prof C. E. Huang
National Award for Young Scientists from the China Academy of Sciences is the highest academic title conferred on young scientists in China. Prof Zhang was nominated to be Executive Officer of the American Society of Mechanical Engineers (ASME) in 1986 and a Fellow of the American Institute of Mechanical Engineering (AIChE) in 1987. Prof Cheng, who undertook his PhD in Aeronautics and Astronautics at Stanford University, acknowledged the existence of active and highly respected in the international community, and received the Shanghai Science and Technology Award, First Class during his career, including the 2006 ASME/AIChE Award for Outstanding Engineering Achievement in Process Systems Engineering, and the 2008 ASME/AIChE Award for Outstanding Engineering Achievement in Advances of Process Systems Engineering. He has been a Member of the Editorial Board of the Journal of Engineering Mechanics since 2000, and has been a Member of the Editorial Board of the Journal of Nanoscale Science and Technology since 2001.

As one of the world's leading engineering and technology leaders, SENG and its joint venture with Tencent have successfully developed an innovative technology integrated with Hong Kong's seawater toilet flushing system, as well as the reuse and recycling of saline water. This novel technology that successfully minimizes the adverse effects of ground-breaking research and applications to improve people's quality of life.

The School of Engineering is proud of how members of the School can be involved in projects and international collaborations, as well as create links and work with the community. Greg De Valence, Director of the School of Engineering, is delighted to be drawing top-quality candidates from Hong Kong, North America, the Middle East, and Africa. As we continue to boost our profile, the School has enjoyed a 50% increase in student applications, and the launch of the School of Engineering PhD Research Excellence Award in 2011. In the year ahead, we will be boosting their professional and personal development, and providing opportunities for our students to take part in projects and international collaborations.
Don't be the Missing Link …

National Award for Youn Scientists from the China Award from the Croucher Foundation in Hong Kong, the embrittlement, fracture and failure of multi-field coupling Prof Zhang’s primary research focus is on hydrogen third was Prof Mingjie Zhang, Chair Professor in the Division Mechanical Engineering Professors companies in Hong Kong, the Pearl their social awareness. such as Engineering Innovation and Entrepreneurship, and holistic, whole-person educational experience for our students is already a buzz of anticipation in the air here. At the undergraduate level, the way ahead will be underpinned forward-looking Center for Engineering Education Innovation (E²I) School's annual HKUST Technology Industry Innovation Award, innovations that have had a global impact on improving established the high-level accolade to recognize the efforts of Prof Ping Cheng is a world-renowned researcher in the field on Fracture and the 18th European Conference on Fracture. Prof Zhang was nominated to be Executive Officer of the University.
National Award for Young Scientists from the China technology development by the Chinese government for achievements in science and Academy of Sciences is the highest academic title conferred honored for their outstanding scientific achievements. The prestigious members of the Chinese Academy of Sciences. Engineering joined the ranks of the nation's best scientific Mechanical Engineering Professors work of an engineer. With the focus on mutually Likewise, our Internship and Industry Engagement graduates. signal the fundamental qualities we seek to develop in our such as Engineering Innovation and Entrepreneurship, and produce 21st century engineers who will inspire, innovate, and for further success as a multicultural hub of engineering excellence. As one of the world's leading engineering schools, SENG degree system in the autumn. No doubt there will be challenges by our specially created curriculum, which maximizes the innovations that have had a global impact on improving. HKUST and Tencent shared the same vision on innovation and innovation and growth through open platform strategies. "Internet Companies in China". He said that Tencent was committed to internet companies globally in market capitalization. licenses to millions. It is now one of the largest integrated internet largest internet community. Active QQ accounts exceed 700 together Mainland China's...
Don't be the Missing Link ...

160 SCI papers and co-holds two US patents. He is a Professor Emeritus, were among three Hong Kong academics elected to Chinese Academy of Sciences. Two professors from the Department of Mechanical Engineering Solutions to Grand Challenges of the 21st Century, environment, megacities, energy, healthcare. “Signature” courses, and be ready to take on the major issues of our time: the degree system in the autumn. No doubt there will be challenges by our specially created curriculum, which maximizes the industries.

Mainland China, Asia and other regions. This is putting us on track ranked one of the best engineering schools globally, we are As we continue to boost our profile, the School has enjoyed by our specially created curriculum, which maximizes the industries.

Thus, 2012 is set to be a year of positive development at all

School's annual HKUST Technology Industry Innovation Award, he hoped Tencent and HKUST would continue to promote innovation in its business model and put a strong focus on “Reflections on the Innovation and Entrepreneurship of the IT and the Pearl River Delta, Mr Ma gave a speech on another key success for corporate development. He said

“Honors Award was presented to Mr Ma

A prestigious award newly set up by the HKUST Campus the Media Laboratory Opening Ceremony of HKUST NIE Social Secondary Schools Bridge Demonstration February, 2012

Dean's Message

One of the most inspiring awards during his career, including the 2006 ASME/AIChE Prof Zhang's primary research focus is on hydrogen Hong Kong-Mainland collaborations and assist science and academic accolade bestowed on the University's faculty of Life Science at HKUST. Membership of the Chinese Professor Emeritus, were among three Hong Kong academics elected to Chinese Academy of Sciences. Two professors from the Department of Mechanical The Hong Kong University of Science and Technology

Tencent Chairman

Media Laboratory

Opening Ceremony of HKUST NIE Social Secondary Schools Bridge Demonstration February, 2012

Secondary Schools Bridge Demonstration February, 2012

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Opening Cerem
The second half of 2011 saw the University's reputation, employer reputation, and research impact rise. The QS World University Rankings 2011 placed the University 30th in Greater China, No. 1 in Greater China for engineering and technology in the QS subject rankings. In Hong Kong and No. 22 globally in engineering and technology, the University ranked 36th in engineering globally. The University ranked 37th in research income and international outlook.

Training on professional engineering education innovation will keep the School at the forefront of engineering education. Training on professional engineering education innovation will keep the School at the forefront of engineering education. Many HKUST students are risk-takers by nature which is why they are able to adapt to new areas quickly and rise to the challenge. Those at HKUST are not afraid to try new things.

A guiding hand is how Prof. Hong K. Lo looks at his role as the head of the Faculty of Engineering. Prof. Lo believes that the role of a faculty head is not just about administration, but also about mentoring and advising students. Prof. Lo notes that these days whether postgraduates go back to work or continue their studies is a decision that they need to make themselves. Prof. Lo encourages these students to look beyond their specialty and to take on new challenges.

Prof. Lo believes that there is exciting potential for major contributions to bioengineering, and smart green buildings.

Mentoring and advising are among the areas being strongly promoted. Prof. Lo regards these as key areas for HKUST. Prof. Lo believes that the role of a faculty head is not just about administration, but also about mentoring and advising students. Prof. Lo notes that these days whether postgraduates go back to work or continue their studies is a decision that they need to make themselves. Prof. Lo encourages these students to look beyond their specialty and to take on new challenges.

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The second half of 2011 saw HKUST ranked No. 1 in Hong Kong in the Global University Rankings (ARWU). A month earlier, HKUST was again ranked No. 2 in Asia in the ARWU global faculty student ratio, proportion of international citations per faculty, faculty student ratio, and positions 36th in engineering globally. The rankings are based on research, teaching, and international outlook.

In September, HKUST hit the No. 1 spot in Asia for the second consecutive year in the ARWU engineering field ranking. The School has already been successful in sending teams to take part in the Student Engineering Design Competition (SENG) and has won 15 awards for their innovative projects in the School of Engineering.

Dean of Engineering Prof Khaled Ben Letaief said HKUST’s consistently top ranking demonstrates the School’s commitment to research excellence and international standing. "Our success in the ARWU rankings is a testament to the hard work and dedication of our faculty, staff, and students," he said. "We are proud to be ranked as one of the top universities in the world and look forward to continuing our work in advancing knowledge and innovation."
A month earlier, HKUST was again ranked number 8 in the Academic Ranking of World Universities (ARWU) 2011. The University’s international faculty, global reputation, and research productivity and outcomes were further highlighted in the Times Higher Education World University Rankings 2011. The School of Engineering already has a highly ranked global faculty team. However, the School is still unclear how to relate their school subjects to the work application. "The flexibility and student-centered approach built into the introduction of the four-year degree program this autumn will holistically study ocean container transport supply chain networks around the world," said Prof Hoi Sing Kwok, Electronic and Computer Engineering, received the Best Presentation Award Components, Packaging and Manufacturing Technology (CPMT) Society. The world-renowned Conference for their paper "Effect of Pad Design and PCB Materials on the Pad Cratering Failure". "Transforming Hong Kong's Ocean Container Transport Logistics Network", a study led by Prof Khaled Ben Letaief has won the 2011 IEEE Communications Conference on Structural Dynamics (EURODYN 2011), Leuven, Belgium, July 4-6, 2011. Prof Katafygiotis received his accolade in the area of computational methods in structural dynamics (one prize for methodology development, and one for computation or application). Prof Katafygiotis is keen to see more women take up engineering and, however, the School is still unclear how to relate their school subjects to the work application. The School's international exchange program is part in international robotics contests, and drawing students into part in international robotics contests, and drawing students into part in international robotics contests, and drawing students into...
**New Appointments**

Academic year 2011/12 has been awarded grants in the National Natural Science Foundation of China.

**Facility Honors, Awards & Achievements**

- **Winning Approach to Teaching**
  - **Dr. Tim Woo**, Electronic and Computer Engineering, who is the GCE Founding Director.

**Faculty Honors, Awards & Achievements**

- **Michael G Gale Medal** for Distinguished Teaching
- **Chair of the Year**
- **Young Investigator Award**

**Education**

- **Teaching**
  - Prof. Christopher Chao enjoys pushing himself to greater heights in his teaching.

**Research**

- **WU Times World University Rankings**
  - HKUST is ranked No. 1 in Greater China and No. 1 in China.

**Internationalization**

- **International Faculty, Teaching, Research, Citations, Industry**
  - Prof. Chao said, “So they will need good advice.”

**Innovative Curriculum**

- **innovative curriculum** allows learners to direct their own learning.

**Conference Papers**

- **EURODYN 2011**
  - **Stochastic Dynamics and Systems Identification**

**Student Competitions**

- **Asia-Pacific Robot Contest in Bangkok**
  - A total of 17 regional champions and 2 best teams from the host country took part.

**Industry Partnerships**

- **Smart Car Teams**
  - The School has already been successful in sending teams to take part.

**Global Leadership**

- **Prof. Ricky Lee**, Mechanical Engineering, is the first based in Asia to be elected to this global leadership position.
indicating the notable global citations per faculty, teaching, research, citations, industry worldwide. The rankings are based on resources for them. We want to open students' minds and ‘These developments have been made possible because the School is expanding, with the aim of offering 50% of undergraduates the opportunity to study outside Hong Kong. Projects with NGOs and overseas competitions will enable students from different continents. Now the goal is to encourage cross-cultural awareness and ties. The School’s success in such attributes is set to be developed through presentation and research collaboration and entry into mainland China. ‘Together we can make a difference,” said Prof Chao. ‘And to build up peer support networks that can spark the work.’ "

He sees explaining what engineering is to high school students much more in terms of the courses they undertake, especially in the introduction of the four-year degree program this autumn. ‘An engineering expert certainly knows the value of this,’ having engineering degree provides a very solid and useful many other careers. ‘Women engineers bring not content to stand still. ‘Women engineers bring into academia or industry – and many also take the latter

"The School of Engineering already has a highly ranked global approaches to cutting-edge research that can contribute to the Hong Kong’s position as a leading Engineering Education Innovation providing additional research collaboration and entry into mainland China. ‘Together we can make a difference,” said Prof Chao. ‘And to build up peer support networks that can spark the work,’ said Prof Tim Woo, Electronic and Computer Engineering, who is the GCE Founding Director. ‘We really make an impact on people’s lives.”
Helping to Lead the Way

By Professor Richard So

As an educator, I firmly believe that teaching is more than just imparting knowledge; it is about empowering students to think critically, solve problems, and contribute meaningfully to their communities. My approach to teaching is student-centered, involving active learning strategies that encourage engagement and collaboration. I have developed a course on innovation and design thinking that has been highly successful, fostering creative problem-solving skills among students. Through this course, I aim to instill in them the confidence and capability to tackle real-world challenges and drive innovation.

My passion for teaching is reflected in my innovative initiatives, such as the establishment of a student incubation program that supports aspiring entrepreneurs. I strive to create a dynamic learning environment that not only equips students with technical skills but also instills values of social responsibility and ethical conduct. By fostering an entrepreneurial mindset, I believe we can prepare students to be leaders in their fields.

Improving the Learning Experience

I am committed to enhancing the educational experience for students. In collaboration with the administration, I have spearheaded the development of a new curriculum that integrates industry-relevant case studies into course content, ensuring that students are well-prepared for the workforce. I have also initiated a mentorship program that pairs senior students with industry experts, providing them with invaluable real-world insights.

I am inspired by the dedication of my colleagues who are dedicated to creating a supportive and inclusive learning environment. I believe that the success of our students is a collective effort and that we should continue to invest in continuous improvement of our teaching methods and resources. Through my role, I aim to inspire young minds to embrace challenges, think critically, and make a positive impact in society.
Feedback showed the school students enjoyed the fun. Organized by SENG Student Ambassadors and supported by BMTPow Ltd; Du Pont Apollo Ltd; Hongkong Electric Co. Ltd; Applied Science and Technology Research Institute (ASTRI); The symposium provided a highly useful forum, bringing smart grid and environmental pollution sensors, among others. The First International Ecotronics Symposium – Electronics for awareness of how technology impacts people's daily lives.

Prof Roger Chengrelies on OFDM and OFDMA technology. He has 19 patents and patent processing techniques. AVS-M standard, and he holds eight US patents on his signal MPEG-4 international video coding standard and the China machine makes the propagation of torsional vibration visible to the Mechanical Engineering graduates, as one of its exhibits. The building energy research center, associate director, recognized for contributions to wireless technology. Prof Chen is the first Hong Kong scholar to receive optimization; low-cost and compact wastewater treatment technology and management. His research interests include energy, thermofluids, and indoor air quality and leadership in the world of water science. Election to the academy is based on contributions to the field via recognition in the field of indoor air quality studies. Election to fellows are recognized for their outstanding engineering research.
Feedback showed the school students enjoyed the fun. As part of the program, students took part in interactive gatherings organized by SENG Student Ambassadors and supported by alumni. Students last July and August. The events gave summer school and the University of California, Santa Barbara. smart grid and environmental pollution sensors, among others. cells, wind turbine engines, solid-state lighting, green buildings, Department of Electronic and Computer Engineering.

Alzheimer's sufferers, an environmentally friendly, cost-effective communications in wireless systems. Prof Zhang is the inventor of about reflection waves and standing waves. It can also demonstrate a variety of wave forms including naked eye. It can also demonstrate a variety of wave forms including...
Feedback showed the school students enjoyed the fun engineering and the application of science and technology. As part of the program, students took part in interactive technology, and a chance to meet current undergraduates and Students last July and August. The events gave summer school

The symposium provided a highly useful forum, bringing cells, wind turbine engines, solid-state lighting, green buildings, a broad range of applications and technologies for generating

Over the past decade, many research efforts have explored a
achievement of the School’s faculty, students and alumni and raised

Bring Technology to Community

The eye-opening applications.

OFDM and OFDMA technology. He has 19 patents and patent
Cheng’s research interests extend across multiuser information

Cited for contributions to multimedia coding

Prof Oscar Au
Department of Electronic and Computer Engineering, six from

Honored for her contributions to the

Media Lab, Electronic and Computer

widely used in home appliances, portable electronics, mobiles

Cited for his work on the design and commercialization of

Product Analysis and Design Enhancement

802.22 (cognitive radio) specifications.

wireless technologies and is the key contributor for four IEEE

Going Underground

several civil and environmental engineering students have

to Awareness

country. I worked on a project to characterize the electrical

My Life as a

New Appointments

AIR QUALITY AND CLIMATE (ISIAQ)

AMERICAN SOCIETY

ENGINEERING

Professor Chao

Assistant Professor

Department of Civil and Environmental Engineering

Lecture Series

The lecture series will focus on the topics of sustainable sewage treatment systems; sludge minimization in

water professionals renowned for their

As a prize for the

Corporate Leadership

Acknowledging Corporate Support

In recognition of their

Looking Toward Looking Back

Looking Toward Looking Back

The Hong Kong Professional

Institute of Engineers (HKIE)

Looking Toward Looking Back

The 20th anniversary of the School of Engineering

Good Fellows

The School of Engineering is proud to announce the newly appointed Fellows of the Society of Fellows:

Fellows among universities and institutions in Asia, bringing the

memorialized and is a distinction reserved for select members with

The IEEE is the world’s leading professional association for

advancing technology for humanity, with 395,000 members in

The Fellows of the Society of Fellows are recognized for their outstanding engineering

Prof Chao has been elected an ASME Fellow, a top honor in the

of the Center for Sustainable Energy Technolog

and continuous membership. ASME has over 120,000 members

and is a membership reserved for select members with

over 20 student and head ambassadors in the current

memorable and happy evening together.

Throughout 2011, the School of Engineering arranged and took part in a wide range of events to

helping the union’s executive members convey students’ views on a

Hin San served as the Vice-President (Internal) of the Students’ Union

University. The lecture was co-organized by the School of Engineering

and Head of Civil and Environmental Engineering at Cambridge

given by Prof Robert Mair, Sir Kirby Laing Professor of Civil Engineering

of our burgeoning cities. The fresh challenges this will bring for

the lecture and the seminar were chaired by Prof Charles Ng, Chair

the seminar were chaired by Prof Charles Ng, Chair

of the Center for Sustainable Energy Technology.

In addition, the lecture and seminar were chaired by Prof Charles Ng, Chair

of our upcoming projects from around the world.

For the second consecutive year, the School of Engineering

annually to encourage creativity and recognize students’

Professor Chao and the Society of Fellows members were

of current and future projects from around the world.

for undergraduate

awards for undergraduate

Engineering faculty members are being recognized by the

As a result of the

University Council in 1993 in

particular the campaign to help victims of

has been brought to different branches of student activity. In addition,

in the artificial intelligence and cognitive science fields of natural

Named among the first 17 Founding Fellows

of the Center for Sustainable Energy Technology.

Head, Civil and Environmental Engineering

Prof Christopher Leung

Chair, Civil and Environmental Engineering

Prof Charles Ng

Emeritus Professor

Engineering faculty members are being recognized by the

As a result of the

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...
organized by SENG Student Ambassadors and supported by technology, and a chance to meet current undergraduates and entertaining and inspiring Engineering Get2Gathers arranged at HKUST Summer Institute for Science and Research.

The week-long display highlighted the work and research by the School of Engineering, took members of the public into broad range of applications and technologies for generating new knowledge, and also provided a window into the latest research within the School.

Research interests extend across multiuser information systems, mobile communications, and networks, with particular focus on the development of efficient and effective communication systems. Of the total Fellows at HKUST, 18 are from the School of Engineering, Associate Dean of Engineering and the Department of Computer Science and Engineering, and 12 are from the School of Engineering, Associate Dean of Engineering and the Department of Computer Science and Engineering. Elected for work on multiuser mobile communications, Prof Zhang is the inventor of about one Chinese patent. He is a member of the International Telecommunication Union’s Generic Network uncovers the latest research in the field of wireless communications and networking.

Cheng's research interests extend across multiuser information systems, mobile communications, and networks, with particular focus on the development of efficient and effective communication systems. Of the total Fellows at HKUST, 18 are from the School of Engineering, Associate Dean of Engineering and the Department of Computer Science and Engineering, and 12 are from the School of Engineering, Associate Dean of Engineering and the Department of Computer Science and Engineering. Elected for work on multiuser mobile communications, Prof Zhang is the inventor of about one Chinese patent. He is a member of the International Telecommunication Union’s Generic Network Group, which is responsible for the development of the 64B/65B encoding now adopted by the International Telecommunication Union. The expertise and significant global contributions of School of Engineering, Associate Dean of Engineering and the Department of Computer Science and Engineering, and 12 are from the School of Engineering, Associate Dean of Engineering and the Department of Computer Science and Engineering. Elected for work on multiuser mobile communications, Prof Zhang is the inventor of about one Chinese patent. He is a member of the International Telecommunication Union’s Generic Network Group, which is responsible for the development of the 64B/65B encoding now adopted by the International Telecommunication Union.
Over 100 participants from 59 secondary schools in July and August attended the symposium. The events provided a highly useful forum, bringing together experts to discuss smart grid and environmental pollution sensors, among others. The symposium was held at HKUST and featured the achievements of the School's faculty, students, and alumni and raised awareness about bringing technology to the community.

Cheng is known for his research interests that extend across multiuser information algorithms. His work has been cited for contributions to multimedia coding and he has 19 patents and 30 international patents. In December, he was elected a fellow of the IEEE for his work on multiuser detection of orthogonal frequency-division multiplexing (OFDM) and OFDMA technology.

Matthew Yuen, Head of the Department, started an ASP-style student union in 2010. He worked out practical solutions that were mutually beneficial to students and the University community as a whole. Through his leadership, Hin San served as the Vice-President (Internal) of the Students' Union. He showed outstanding leadership in 2010-11 and was presented with the Stephen Cheong Memorial Award for Effective Leadership.

The medal is given annually to the HKUST student who best reflects the spirit of the Stephen Cheong Memorial Award. Hin San led an intra-university referendum on whether to extend the work to off-campus causes, in memory of the late Honorable Stephen Cheong, who was a significant contributor to the University. As a result of his dedication and commitment, greater cohesiveness and awareness were raised to students and the University community as a whole.

As urban congestion grows around the world, underground tunnels and bridges play an increasingly important role in our modern cities. The fresh challenges this will bring for engineers will be discussed at a seminar on civil engineering. As a result of his dedication and commitment, greater cohesiveness and awareness were raised to students and the University community as a whole.
Along with interior designers and home movers, others who adopted a wide perspective. Dr. Huanfeng Duan, Civil and Structural Engineering, and other emerging fields also offer new directions and business challenges.

Both students and director professionalism. The Department of Industrial Engineering and Logistics organized by the Department of Electronic and Computer Engineering, won the Engineering Distinguished Research Excellence Award. The Institution of Engineers, Institute of Electrical and Technology.

Dean of Engineering Prof Khaled Ben Letaief and HKUST Engineering Distinguished Research Excellence Award. The Institution

Nathan Liu and Business Management, and his Eco$ave Award First Prize at Introducing and Demonstrating Earthquake Engineering in Taipei. An

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Faculty Honors, Awards & Achievements

Also involved in the project were HKUST President Prof Tony

closing rather than manual rearrangement of

Advances on previous programs used by furniture retailers

part of the high-flying team behind the Make It Home

Opening Up Options for

in Shanghai, the conference gathered scholars and industrial

Industrial Engineers (IIE) conference to be held in Asia

Around 100 participants took part in the lively East Asian

exceptional research achievements and significant impact

2011. The Distinguished Research Excellence Award, the most

The School of Engineering established the annual

Professor of Nanotechnology of Electronic and Computer

was given by Prof Hoi Sing Kwok, Dr William M W Mong Chair

The lecture on "Future Directions of Display Technologies"

More than 120 guests, industry partners, faculty members and

Distinguished Research Excellence Award Recipient

and director professionalism.

professional directors working together

Prof Jack Lau, Electronic and Computer Engineering

(Computer Science + General Business Management), MPhil in

Lund University in Sweden and

2011. Eight local tertiary institutions participated.

Disrupting Compounds in Water".

Department of

Electronic and Computer Engineering, won the Varitronix 30th

Engineering, were awarded the Student Paper Award 2011

MPhil student Wai Kit Chan, Chemical and Biomolecular

Sizing Models".

Management, won the Best Paper Award at the 8th

Computer Science and Engineering, received the Hong Kong

Society, National Nanotechnology

was hosted by Korea's Ministry of

Kuan Y ew Global Business Plan Competition

text for place names in English, Cantonese and Putonghua. The

Application assists

and technology commercialization. Perception Digital is

and other emerging fields also offer new directions and

Singapore, Japan, Korea, Taiwan, Malaysia and Mainland China,

Engineering and Department of Physics from June 15-17 at

active-matrix organic light-emitting diodes, and bistable

In his talk, Prof Kwok discussed some of the state-of-the-art

For the final

research, funded by the University's Special

invited to talk about research challenges in energy in industry.

two internationally renowned scholars, Prof

Gang and Dr Yu Zhang, Computer

Array Signal Acquisition IC". The conference is the premier

award was established in 2010-11 with a fund raised in the

designated by the Hong Kong Institution

the program to gain a public listing

has a solid footing in its board and company

decisions based on objective justifications. At SENG, students

"In today's corporate world, senior executives make business

thinking he learnt as a student is helping him to solve different

business challenges

businesses maintain a competitive edge in the local market.

decisions. The SENG business case study competition

businesses. The competition is designed to provide a realistic

operational efficiency and improve

engineers at Hong Kong

Alumni
Students & Faculty Honors, Awards & Achievements

Also involved in the project were HKUST President Prof Tony Chan as research advisor and Prof CK Tang, Computer Engineering. Distinguished Research Excellence Award, the most prestigious award for outstanding scholarly work and research. The School of Engineering established the annual Dean of Engineering Prof Khaled Ben Letaief and HKUST Engineering Distinguished Research Excellence Award.

The lecture on “Future Directions of Display Technologies” at the symposium “Displays for Future Hi-tech Solutions in Consumer Electronics” was hosted by Korea’s Ministry of Information Technology and Education, Science and Technology, and was attended by 12 students from the 11 member universities of AOTULE.

Craig Yu, a research assistant, won the Best Paper Award at the 1st IEEE Swedish Communication Technologies Workshop. The symposium, which was co-hosted by the Hong Kong Institution of Engineers, Institute of Electrical and Electronics Engineers, and the Interdisciplinary Research Group in Information Technology, provided a platform for them to learn more about developments in the industry.

Chun Yim and Siu Hung are entrepreneurs in the region and a demand for a broad range of high-end hi-tech solutions for consumer electronics.

Kong’s Ten Outstanding Young Persons and World Challenges Academy for Young Scientists Award. He was one of 12 students from the 11 member universities of AOTULE to join the program.

Dr Weiping Wang, Chemical and Environmental Engineering, received the Young Investigator Award at the HKUST Biotechnology Symposium.
Faculty Honors, Awards & Achievements

Student Honors, Awards & Achievements

■ ■ ■ ■ ■

F Chan as research advisor and Prof CK Tang, Computer software.

applications in Asia as the region rises in importance globally.

The Department of Industrial Engineering and Logistics

First Asian Conference for

organized by the Department of Electronic and Computer

Engineering, and the first recipient of the School of

The lecture on "Future Directions of Display Technologies"

by

professional directors working together

from the Hong Kong Institute of

Corporate Governance

BEng/BBA Dual Degree Program in Technology & Management

and Computer Engineering, won the

Lund University in Sweden and

MIMO Precoding" by PhD exchange

Engineering, won the championship in the Association for

year project award from

Department of

All the students graduated in 2011. Varitronix Limited, one of

Land Value”. Both students

Alumni

Nano Postgraduate Workshop

magazine,

Make It Home has been written about in the international

"After training at HKUST, we are proud to say we have a

and video game developers. In addition, there is potential for

and technology research in the East Asian region to share their

importantly, it offers a great opportunity to initiate and

establish international collaborations.

there are fresh opportunities and challenges for industrial

States. "As a result of the strong foundation I received in

ECSE, I have become a better problem solver and
decisive thinker in my current work," said Ms. Jennifer

Foundation, caring in all situations and hard working.

There were also three 2011 PhD graduates who
gained the Cisco Best Student

Award for her paper “A 38.6nV/Hz0.5

Optimal Transportation Pricing Problem in Dynamic Lot

Chun Yim and Siu Hung are

newly admitted to SENG’s industrial

thinking he learnt as a student is helping him to solve different

problems. "I would like to thank my professor, Dr. Chan

Lau, for his guidance and his support. I have been

This year was dedicated to sustainability. We sponsored the

future. It is a great opportunity for the students to

research directions. Mr Bob Aylsworth, Vice President, WW

Earthquake Engineering Research in Schools 2011 (IDEERS

A Civil and Environmental Engineering postgraduate team,

AOTULE

LEAGUE on Engineering (AOTULE)

Computer Engineering, was selected to

Summer Student Exchange Program. This

PhD candidate

CISCO Best Student

Mechanical Engineering

coming first and third

in the Division Three League of the AOTULE

Engineering, has received the RGC-Fulbright Hong Kong

Postgraduate Research Award. Dr. Lau received the

Sir Edward Youde Memorial

Award for his paper “A Study on Sequencing

structure to a shaking test.

Earthquake Engineering Research in Schools 2011 (IDEERS

challenge this year’s data mining task, which focused on

best known annual competition in data mining. This year’s

graduate Bin Cao, research assistant Luheng He, also won

research competition was attended by over 2,000 teams worldwide.

The 2011 Challenge was organized by

another significant contribution to the HKUST community was

the society of the future.”

sustainable energy.

T o share what was ongoing in the field at HKUST, 11 projects

were presented at the annual "Gateway to Knowledge

Competition. Three of the winning teams were composed of

students from the School of Engineering, Economics &

Management. The competition focused on sustainable

innovation and the adaptation of the HKUST research in

this direction.

Mr. R. T. Yau, President of the Institution of Engineers

Hong Kong, said, "HKUST has a very distinctive approach.

The School of Engineering, Economics & Management (SENG) established

the Society of the Future in 2009 as part of its strategic vision to

shift the focus of the school towards sustainability. This year’s theme was

"A Diverse World of

Engineers, Chang-Chun Lin, graduated in 2011 with a BEng in

Environmental Engineering, and Dr Yu Zhang, Computer

Biomolecular Engineering, Dr Huanfeng Duan, Civil and

Engineering, received an Honorable Mention. Dr. Li, Mechanical Engineering, received an Honorable Mention. All the students graduated in 2011. Varitronix Limited, one of the largest company set up under the HKUST auspices, has sponsored the 2011 PhD graduates. The company has also supported the PhD students in their research projects.

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include automatic rather than manual rearrangement of computer software. have now helped to turn this great idea into virtual reality as moving or renovating your home by having different options. With Asia now the largest manufacturing center in the world, lecture, a distinction in itself. The School of Engineering established the annual Engineering Distinguished Research Excellence Award. Professor of Nanotechnology of Electronic and Computer Kao Auditorium at Hong Kong Science Park. by 20 hi-tech solutions for consumer electronics. Prof Lau is the Chairman and Chief professional directors working together award-winning success when he was.
Science and Engineering, together with academics from the University of Hong Kong, have embarked on a research collaboration to develop advanced computer software for the furniture industry. This project builds on previous programs used by furniture retailers to enhance their digital presence. The collaboration aims to provide a comprehensive set of tools for furniture retailers to manage their inventory and customer interactions more efficiently. At the same time, the project seeks to offer a range of options and functionalities for consumers, enhancing their experience in selecting and ordering furniture.

With Asia now the largest manufacturing center in the world, there is a growing demand for hi-tech solutions in consumer electronics. Executive Officer of Perception Digital, a leading technology company in the region, highlighted the importance of innovation in driving market growth. He emphasized the need for companies to adopt new technologies and develop fresh business strategies to maintain their competitive edge.

During a recent gathering, postgraduates from various universities gathered to discuss industrial engineering research and innovation. The event was attended by more than 120 guests, including industry partners, faculty members, and distinguished guests. The meeting aimed to bring together experts from different fields to share knowledge and insights, fostering a collaborative environment for academic and industrial advancement.

Among the notable achievements, a student from the University of Lund in Sweden and a PhD candidate from Hong Kong were awarded for their innovative work. The student, along with his team, won the first prize in the Lee Wai Kitöö Award, which recognizes outstanding contributions in the field of electronics. The PhD candidate won the Best Paper Award at the 8th IEEE Swedish Communication Technologies Workshop, highlighting the high-quality research being conducted in the area of electronic packaging.

Other awards were also announced, including the Young Engineer of the Year Award, which was presented to a student for his work on fitness technology. The award recognizes outstanding young engineers who have made significant contributions to their fields. The winners were Dr. Weiping Wang and Ka Chun Cheung, Chun Yim Wong, and Siu Hung Yuen, who were acknowledged for their exceptional research and development work.

The gathering served as a platform for showcasing the latest advancements in research and innovation. With 41 oral presentations and 49 poster presentations, the event provided attendees with a comprehensive overview of the latest trends and developments in the field. It demonstrated the vibrant and dynamic nature of the academic and industrial community, and the ongoing efforts to drive progress and innovation in various sectors.

In conclusion, the event underscored the importance of collaborative efforts and the commitment to excellence in research and development. It highlighted the potential for innovation to drive economic growth and improve the quality of life for citizens across the globe. The gathering served as a testament to the power of collaboration and the potential for transformative change in the field of industrial engineering.

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Don't be the Missing Link ...

Second Class, and has received the Senior Research Fellow Hong Kong-Mainland collaborations and assist science and technology research. Division of Life Sciences at HKUST. Membership of the Prof T ongyi Zhang, Chair Professor, and Prof Ping Cheng, Engineering joined the ranks of the nation's best scientific QQ accounts exceed 700 million. It is now one of the largest between the School and industry. people's lives. It will also encourage greater interaction a top technology leader who has demonstrated outstanding HKUST Technology Industry Innovation Award was by our specially created curriculum, which maximizes the fundamental qualities we seek to develop in our graduates. Students can take part in projects and international competitions that will provide hands-on experience of teamwork and sharing successful times with you.

Alumni relationships are invaluable assets to the School and support he had received from HKUST when he was Head of Astronautics at Stanford University, acknowledged the Class, and State Natural Science Award, Second Class.

Active and highly respected in the international community, it is delighted to be drawing top-quality candidates from Hong Kong, Mainland China, Asia and other regions. This is putting us on track to foster the growth of our alumni network, please keep us informed of your recent news and send us your alumni. To keep us informed of your recent news and send us your news and send us your

A prestigious award was presented to Mr Ma (SENG) to recognize business...