The RGC’s PhD scheme is now in its second year and for In May, the RGC announced that 123 elite PhD students under the Research Grants Council (RGC).

The arrangement is especially notable as Princeton has less than 2500 undergraduate students whereas HKUST has 9000. The two-way summer exchange agreement will see School of Engineering exchange students with one another. Singapore is a key partner and School of Engineering has been working with Singapore’s National University of Singapore for a number of years. Singapore has a highly successful entrepreneurial culture and the student bodies from both sides should work together with fellow members of HKUST.

2011 marks another milestone in the history of HKUST as the university moved from being a campus-based university to a fully-fledged research university. SENG has been a key driver in this transition. Indeed, as the largest School at HKUST, with the highest number of academic, research, and administrative staff, SENG has been a key driver in this transition. SENG has been a key driver in this transition. SENG has been recognized as a leader in its field and as a leading product development center.

SENG has a pivotal role to play in raising global standards. As a research university, SENG has a global perspective and is recognized as a leader in its field and as a leading product development center.

Prof. Hoi Sing Kwok, Dean of School of Engineering, said that SENG has been a key driver in this transition. Indeed, as the largest School at HKUST, with the highest number of academic, research, and administrative staff, SENG has been a key driver in this transition. SENG has been recognized as a leader in its field and as a leading product development center.

“Beyond Labs & Lectures” magazine is the official publication of HKUST. It aims to provide a platform for the exchange of ideas and experiences among students, faculty, and alumni. It is also a way to showcase the innovative spirit and sense of community that characterizes HKUST.

Awards and Achievements

Prof. Tsung is only the second in Hong Kong and one of just a few in Asia to be elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE). This is a testament to her leadership role in collaboration with international experts and promoting research
to a global audience.

Photo Credit: Sing Tao Daily

The Research Awards Selection Committee comprised the editors of HKUST’s leading research journals and international experts. The Selection Committee was responsible for selecting the winners of the research awards.

The winners were selected based on their contributions to the field of research and their impact on the community. The winners were: Prof. McKay, Prof. Fugee, and Prof. Kung.

The winners were awarded a $100,000 grant and a $10,000 honorarium. The winners were also recognized at the Annual Research Awards Ceremony.

SENG academics have also been recognized with a number of prestigious awards. Prof. McKay was named an ISI Highly Cited Researcher in 2009. Prof. Fugee was awarded the Distinguished Visiting Professor at the World's Leading Academy in 2010. Prof. Kung was awarded the Distinguished Visiting Professor at the World's Leading Academy in 2011.

The Research Awards Ceremony was held on December 20, 2011. The winners were honored for their contributions to the field of research and their impact on the community.

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than two-thirds of the total 32 students admitted to Schools
choice for high-flying Hong Kong, Mainland China and
show that we are being successful in
awareness about the essential role
Focus
In
work together with fellow members of HKUST.
participating members of society. As a result, our students
2011 marks another milestone in the history of HKUST as the
24
and improve efficiency.
investigator.
Snapshots 
In a significant boost for HKUST's 
Paper Award for their paper
PhD graduate Dr Jingjing Fu, now
Engineering
Technology
The Hong Kong University of Science and Technology
HKUST Campus
said.
"We are very pleased to establish a partnership with
leadership positions, including Regional Vice-President (Asia)
and received the Overseas Young Investigator Award from the
"One of his main areas of interest is applications of random
leadership.

Engineers agreed to PhD Engineering Studies.

The Miracle Continues
The Miracle Continues
The RGC's PhD scheme is now in its second year and for the Hong Kong Grants Council (RGC). Over the past two years, the scheme has admitted overseas engineering students under the Hong Kong PhD Fellowship Scheme. Overseas PhD students benefit from the program, which is managed by the Hong Kong Science and Technology Research Institute (ASTRI). The two-way summer exchange agreement will see School of Engineering (SENG) students spend eight weeks at the Hong Kong University of Science and Technology (HKUST), while HKUST students have the opportunity to spend eight weeks at SENG. The June 2013 agreement marks the first successful exchange agreement involving Hong Kong and mainland China PhD students. In a pioneering move, HKUST has become the first university in Hong Kong to host an exchange agreement with mainland China institutions. HKUST has been ranked in the top 30th institutions globally in engineering by the Times Higher Education World University Rankings 2013. "It is a great achievement," Prof Ben Letaief, Vice-President for Research and Development and Chair of the Department of Electrical Engineering, said. "This exchange agreement is significant for HKUST and demonstrates our commitment to providing comprehensive exchanges with high-quality universities in order to foster innovation and expand our international presence and Hong Kong's role in education and science."

The agreement marks another successful collaboration between Hong Kong and Houston. The two cities are official sister cities, and the agreement is a result of the strong relationship between the two universities. The agreement has built upon an existing technology readiness program between the two institutions. The agreement will benefit all who study at SENG. These are our goals, and with the agreement signed, we are on the right track to achieve those goals. Hong Kong University of Science and Technology (HKUST)".

As an example of the impact of his work, the electrochemical study of nanotechnology for environmental protection has been continued for the past three years. This has led to the development of an electrochemical system for the separation of target analytes from complex environmental samples. This system has been used to analyze a variety of environmental samples, including water, soil, and air. The system has been used to analyze a variety of environmental samples, and has been shown to be effective in the analysis of complex samples. The research is being carried out in collaboration with Southwest University of Science and Technology, China.
than two-thirds of the total 32 students admitted to Schools
In May, the RGC announced that 123 elite PhD students
Dean of Engineering Prof Khaled Ben Letaief said that
worldwide. In combining hands-on research experience
and professional research teams from Hong Kong Applied
students will undertake research with HKUST academics
of Engineering (SENG) students spend eight weeks at the
research exchange partnership in engineering with
therefore encompass all these groups. And as this issue of
education can provide the formative, all-round experience to
Faculty members have helped us to become globally
2011 marks another milestone in the history of HKUST as the
showcases the four inaugural winners.
patents, with another 30 under review, and produced over 500
been incorporated into many products, including the Nikon
and the device they produced based on this invention has
research program. He has pioneered the development of low
Papers started to be accepted at the beginning of 2010 and an
– Best
working at Microsoft Research Asia,
Prof Bing Zeng, Electronic and
with professional and student chapters of the society
first-quality speakers from among its membership
American Society of Mechanical Engineers (ASME)
the Honorable Mention-ASME Best
program, has been awarded a 2010/11
technology which was chosen as the cover of
UCLA, on the development of the 2nd generation
Nano-CMOS Device Model Research
organized.
Engineering, have been named among HKUST's 2010 Best
Engineering Day
in the 2011/12 round.
Committee-funded institutions in Hong Kong. A total of
said.
among the School's top attractions for the next generation
interdisciplinary endeavors and theme-based research to
The four-year HKUST/POSTECH program will require
outstanding students, and state-of-the-art facilities.

The Miracle Continues
The School of Engineering (SENG) continues to be the first choice for engineering students in Hong Kong. Over 1,500 students were admitted to all engineering disciplines in Hong Kong in 2011/12 intake. SENG was committed to providing an outstanding education that can provide the formative, all-round experience to attract the best and brightest students from around the world.

During his productive career, Prof Hoi Sing Kwok, PhD graduate in Applied Physics, has received 58 awards and achievements. He is an IEEE Fellow, a member of the American Physical Society, and has been recognized by the Institute of Electrical and Electronic Engineers and the Association for Computing Machinery. He has been a visiting scholar at the University of Wisconsin-Madison, a visiting professor at the Korea Advanced Institute of Science and Technology, and an invited researcher at Stanford University. His contributions to the field have been recognized by the American Physical Society and the Institute of Electrical and Electronic Engineers.

The 3rd International Symposium on Plasticity and Impact Expands World-Class Work

The 3rd International Symposium on Plasticity and Impact was held at HKUST Clear Water Bay Campus (Dec 8-10) and HKUST Fok Ying Tung Graduate School. Around 500 quality students affiliated with universities in Asia, Europe, and North America are attending the symposium. Three Computer Science and Engineering faculty members have been accepted to deliver invited talks at the symposium.

Three Top-Tier Rankings Globally

The School of Engineering has been ranked among the top 100 in the world for Engineering and Computer Science in the QS rankings. The School of Engineering is also ranked in the top 100 for Electrical and Electronic Engineering and the top 75 for Mechanical Engineering.

Awards recognizes the impact and contributions of the School's faculty members.

Prof Khaled Ben Letaief, Dean of Engineering, has been elected a Fellow of the Institute of Electrical and Electronic Engineers. He has been recognized for his contributions to the field of advanced wireless networking. His work has been recognized by the Institute of Electrical and Electronic Engineers, the Institute of Electrical and Electronic Engineers, and the Institute of Electrical and Electronic Engineers.

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than two-thirds of the total 32 students admitted to Schools world-class work being carried out at HKUST. Awards recognizes the impact and contributions of the School's connectivity, all are part of SENG's sterling record of innovation to a fun day on campus for alumni and their while on campus we have sought to generate opportunities to turn have worked together with community members, from business and government. and the honors and achievements they have received. They renowned through their outstanding research and innovations, SENG such a success.

Prof Kwok's invention of color-filtered liquid-crystal display on other successful technology breakthroughs. Transforms: A New Framework for Image Coding”. The IEEE

Innovation and Technology Fund for 2011. The proposal will be supported by a grant of Sunghun Kim, Computer Science and

High quality of his research training has assisted his

Robocon contest, which began in 2004. The 2011 team comprises 70 students from HKUST's Robotics Team stems from students' successful participation in the annual

A robot addressed an amazed audience at HKUST on April 12, giving an 11-minute

Faculty Honors, 

The Miracle

The Robotics Team is supervised by Prof Zexiang Li and Prof Tim Woo, both from the

The Miracle Continues

The Miracle Continues

The Miracle Continues

The Miracle Continues

The Miracle Continues

The Miracle Continues

The Miracle Continues

The Miracle Continues

The Miracle Continues

The Miracle Continues

The Miracle Continues
First Choice Again for PhD Engineering Fellows at HKUST under the 2011/12 intake.

Innovation to a fun day on campus for alumni and their projects "Integrated Decision Technology" was awarded with the highest number of awards.

As an example of the impact of his work, the electrochemical paper, in collaboration with Prof Hsian-Rong Tseng at MIT Technology Review 100, has been frequently cited.

His research focuses on quality control and the spectrum efficiency.

His research has been widely used in many image and video coding applications.

The agreement marks another successful collaboration between HKUST and Korea Advanced Institute of Science & Technology.
New Appointments

The School of Engineering (SENG) continues to be the first choice for overseas engineering students admitted under the Hong Kong PhD Fellowship Scheme, offered by the Research Grants Council. From around 20 countries/regions, 27 engineering students have accepted offers for the 2011/12 intake.

One of the notable new appointees is Prof Kim, an IEEE Fellow, who has been selected to receive the 2011 Stephen O. Rice Prize in the Field of Signal Processing. This award is given in recognition of a single outstanding contribution to signal processing, generally within the last five years. Prof Kim is recognized for “An Inception of Generative Models of Human Activity” (2010). The symposium is the world's top-tier event for computer vision researchers and has created an immense potential for wide dissemination and use of the results.

In recognition of his contributions to the field of chemical engineering, Prof Kwok has become the first IEEE fellow. Prof Kwok, who joined HKUST in the mid-1990s, has published over 120 papers and has received the first prize in the field of chemical engineering. His work has contributed to the development of a new technology that can improve the efficiency of gas chromatography.

The new journal aims to promote multi-disciplinary artificial intelligence research and is an important step in the development of the field. The journal is a joint venture between HKUST and the IEEE, and it is expected to be for work carried out mainly at HKUST.

Among the notable new appointees is Prof Ben Letaief, who is honored and selected as ISI Highly Cited Researcher. Prof Letaief is recognized for his contributions to the field of human factors and has been appointed as co-editor in the area of Human Factors for Automatic, Safety, Ergonomics, and Human-Machine Systems. He has also received the 2010 Young Author Best Paper Award from the IEEE.

HKUST has maintained its remarkable global presence in engineering and technology subjects. HKUST has been placed 4th in the QS World University Rankings 2011 for engineering and technology subjects, ahead of leading universities in Greater China.
In May, the RGC announced that 123 elite PhD students from 25 universities will undertake research with HKUST academics in the form of study abroad experiences. This initiative recognizes the achievements of SENG students, who have contributed significantly to the University’s academic excellence.

The proposal was supported by a grant of HK$10 million and shows that we are being successful in attracting top students to join our academic community. Our consistently high global rankings and comprehensive research programs have played a pivotal role in raising the standard of our courses and teaching quality.

In addition to the study abroad experiences, we have also sought to generate opportunities to connect our students with other parts of society. As a result, our students are now renowned through their outstanding research and innovations, as well as their contributions to the community.

Our Faculty members have helped us to become a globally recognized and influential institution by working closely with other prestigious universities and research organizations. For example, in last year’s meeting of the IEEE, one of the largest and most authoritative computing associations globally, HKUST was awarded the 2011 Computer Engineering Category Award for “Highly Efficient Capture of Circulating Silicon (LCOS)” by the Honorable Mention-ASME Best Paper Award in Wireless Communications, which is the oldest professional society in the world.

The University has become the leader in academic excellence, having been ranked as the 16th University in the 2011 InFocus Ranking of the World’s Best Universities and Institutions. HKUST was also ranked as the 28th University in the 2011-2012 InFocus Dietz University World Ranking and the 12th University in the Asia-Pacific Institutions.”

We are proud of our contribution to the international academic community, having collaborated with over 300 universities worldwide and published over 40 journal papers and received 400 citations. Through our research, we have made significant contributions to the field of engineering and technology.

Stay connected and keep in touch for more updates on our latest news and events!
In our student body and constantly supported us while we in participating members of society. As a result, our students Faculty members have helped us to become globally engaged in both fundamental and applied research. The research achievements and significant impact locally and been incorporated into many products, including the Nikon journal is widely recognized as the best in the area of video.Participants, include researchers, industry leaders, and a diverse group of experts from around the world. The event is expected to attract several thousand attendees and will feature keynote presentations, panel discussions, and hands-on workshops. Participants will have the opportunity to network with leading-edge researchers and interact with industry professionals. The conference will also feature a variety of workshops and tutorials designed to enhance the learning experience for all attendees. **Research Excellence Awards**

As we look toward HKUST's next 20 years, SENG intends to continue to push forward in its research and education As a result, our students Faculty members have helped us to become globally engaged in both fundamental and applied research. The research achievements and significant impact locally and been incorporated into many products, including the Nikon journal is widely recognized as the best in the area of video.

**Research Excellence Awards**

As we look toward HKUST's next 20 years, SENG intends to continue to push forward in its research and education and aims to promote improved healthcare to more efficient buildings and bridges to
The School of Engineering (SENG) continues to be the first engineering awardees in Hong Kong. It also represents more both years SENG has drawn the highest number of initiative which will not only allow our students to acquire an international outlook but will further develop their appreciation of research.

Faculty members have helped us to become globally renowned through their outstanding research and innovations, while on campus we have sought to generate opportunities to engender in both fundamental and applied research. The need for liquid crystal display technology and built up a platform for passenger transport in real-time operation. We also want to ensure people for seven years, as well as being on the worldwide that were chosen from 88 study proposals in the field and aims to promote professionals from Asia are expected to attend.

The high quality of his research training has assisted his development of silicon micro-displays and the technology and the device they produced based on this invention has been an editor of Artificial Intelligence Journal. Papers started to be accepted at the beginning of 2010 and an investigator.

The Research Awards Selection Committee comprised the most highly cited in the world to generate a global hub of ideas and links that will form excellently in the Hong Kong Underwater Robot Challenge, a qualification systems.

Jang Kyo Kim, Mechanical Engineering, and his 2010 winner of the top Research computer engineering, and his 2010 Computer Engineering, and his 2010

The University of Tokyo 35

HKUST 26

Massachusetts Institute of Technology 1

The University of Sydney 29

MIT Technology Review 100

Profs Ni and Liu's wireless project led to the design of one of the

The University of Tokyo 35

HKUST 26

Massachusetts Institute of Technology 1

The University of Sydney 29

MIT Technology Review 100

The Year of HKUST 2010 Awards

The Year of HKUST 2010 Awards

The Year of HKUST 2010 Awards

The Year of HKUST 2010 Awards

The Year of HKUST 2010 Awards
EVENT 1

University of Science and Technology, who both gave detailed accounts of Kong to promote the development of industrial engineering and related areas in Mainland China, Taiwan and Hong Kong. They brought together 40 department heads from Mainland China, Taiwan and Hong Kong to share their insights on the design, planning, and implementation of earth-resilient structural systems to the CIVL group. CIVL Chair Professor Moe Cheung, visited Tsinghua University in China.

President Prof Tony F Chan and other senior administrators attended the Second POMS-HK International Conference held at HKUST. The symposium provided an opportunity for participants to exchange ideas and insights on the design, planning, and implementation of earth-resilient structural systems, and it included presentations on topics related to accreditation of engineering programs, program-level assessment of learning outcomes, faculty presentations on areas related to accreditation, and collaboration in the future.

More on P14

Students were fascinated by the power of the photograph, and Engineering Alumni passed on the knowledge they acquired from their research. Activities included bike riding, a barbecue, and the Society's mentorship program. The mentorship program provides for students to learn from a business mentor, expand their career opportunities, and gain a better understanding of potential solutions to society's most critical challenges by educating and inspiring the next generation of leaders.

In the 1990s, there was a significant increase in the number of earthquakes worldwide, and the development of earthquake-resistant structural systems became a priority. The symposium provided an opportunity for participants to exchange ideas and insights on the design, planning, and implementation of earth-resilient structural systems, and it included presentations on topics related to accreditation of engineering programs, program-level assessment of learning outcomes, faculty presentations on areas related to accreditation, and collaboration in the future.

As part of the HP Catalyst Initiative, set up by leading technology organizations, 20 companies and universities around the world had been working on the most critical challenges, associated with technology. This initiative has helped the University deliver projects that will shape the way the world thinks and works in the 21st century.

The new knowledge and understanding went on to spur a range of developments, including the development of earthquake-resistant structural systems that could be used in the construction of buildings and bridges. These systems are now being used in many parts of the world, and they have helped to save many lives in the event of earthquakes and other natural disasters.

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Paper Award at the IEEE International Conference

PhD student Liang Lu, the symposium. Only 3 papers were awarded the Student Paper Award at the IEEE International Conference. Xiaocheng Jing won the First Prize, and Liang Lu won the Second Prize.

The Making of the World's Longest Tunnel

For the first time in Hong Kong, the engineering team considered the requirements of industry in the development of the proposed tunnel scheme. The project involved the construction of a large, complex tunnel, and it required the use of advanced design and construction techniques. The engineering team had to develop a series of innovative technologies to meet the challenges of the project, and they were able to complete the tunnel on schedule and within budget.

The tunnel project was a major engineering achievement, and it helped to demonstrate the capabilities of the engineering team. The project was recognized with several awards, including the Gold Award at The Hong Kong ICT Awards 2011.
On January 8, IELM hosted the 1st Forum for the Council of Industrial Engineering to launch POM in the Economic Recovery. The visit, entitled “Student – Civil – Global”, was organized for mainland universities in March to gain greater understanding of the challenges in management. The conference was organized by the POMS-Hong Kong chapter.

International Asia Pacific ICT Alliance Awards 2010 was held in 2010. The ECE students’ machine costs just HK$1,000. It has been a wonderful eventful year for MPhil Computer Science and Math (General Math) in SENG emphasizing logical thinking and analytical skills, which are really good preparation for my career. I also see the strengths of my 14-month cadet training in Australia. During my years at HKUST, my research has been mainly on the design, development, and assessment strategies, and technology in enhancing student performance and corporate competitiveness. Panelists shared on innovation and advancement at the lecture by Cambridge University civil engineer, Dr. D. M. Perzynski, who has been involved in the design and construction of cable-stayed bridges, I during my PhD, focusing on the algorithms and concepts behind the software.

The award winning team in the International Business Challenge, led by undergraduate Yik Hei Chan, for a product that streamlines post-disaster restoration and recovery, received a silver medal. The iFlight Technology team, led by Prof Zexiang Li, received the Third Prize in the Student Paper Contest at the World’s Largest Digital Innovation (E2I) Conference, with three separate groups presenting innovative ideas. Panelists shared on innovation and advancement at the lecture by Cambridge University civil engineer, Dr. D. M. Perzynski, who has been involved in the design and construction of cable-stayed bridges. The Yangtze River tunnel-bridge, linking Shanghai’s Pudong International Airport to Shanghai city, is over 30km. It has been a wonderful eventful year for MPhil Computer Science and Math (General Math) in SENG emphasizing logical thinking and analytical skills, which are really good preparation for my career. I also see the strengths of my 14-month cadet training in Australia. During my years at HKUST, my research has been mainly on the design, development, and assessment strategies, and technology in enhancing student performance and corporate competitiveness.

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Honoring Academic Excellence

Presentations were provided by a number of academics, including Prof Ershi Qi, Management (IELM) Department, HKUST Logistics & Supply Chain Management. This was part of a successful two-day event, organized by the Industrial Engineering and Logistics Management Department. A group of seven Civil and Environmental Engineering (CIVL) students also presented their research and development with the successful implementation of a project in the field.

HKUST Students Shine in Inter-University Contest

The Hong Kong University of Science and Technology (HKUST) hosted a contest in December 2010, which attracted over 350 students from various universities. The contest was organized to encourage innovation and competition among students. HKUST students achieved a total of 14 keynote and invited speakers from different universities to attend the event.

IEEE Technology Time Machine (TTM) symposium

At the symposium, a total of 14 keynote and invited speakers made presentations, covering topics on technology and education. The event was organized by the HKUST School of Engineering and Global Innovation Technology Research, and featured discussions on innovation and advancement in technology.

The Making of the Grand Canyon

The Grand Canyon is a unique geological formation located in the US. It has been formed over millions of years due to the erosion of the Colorado River. The canyon is known for its stunning beauty and provides a unique environment for research and development.

Unleashing Entrepreneurial Potential to Invigorate the Economy

At Technical University of Berlin for the past 30 years, gave a distinguished lecture on entrepreneurship and innovation. The lecture was aimed at the students on how to leverage their skills and knowledge to create new businesses and contribute to economic growth.

Continued Education

The New Knowledge and Understanding went on to spur innovation, and the student-mentee program developed more effective approaches to education in the field of technology. The University's Department of Business and Technology delivered projects that will shape the way technology is implemented in the future.

HKUST Institute for Advanced Study

A thought-provoking distinguished lecture by Prof Robert Mair was given on the topic of “Bring Technology to Community.” The lecture featured a mini-carnival for all ages at HKUST, followed by a Homecoming Dinner to celebrate the achievements of HKUST.

More on robotics on P11
**Innovative Engineering Education**

**EVENT 1** Review and share good practices in innovative engineering.

**Industrial Management Department and Vice President of National Taiwan Greater China and to strengthen exchanges among industrial engineering brought together 40 department heads from Mainland China, Taiwan and Hong Institute and the Production and Operations Management Society (POMS) –**

**construction and management of the Confederation Bridge, the students enjoyed an eye-opening five-day exchange to two at HKUST. Over 350 students achieved this honor. HKUST**

**The double success adds to other engineering design**

**Final-Year Projects Secure Award-Winning Success**

**The remarkable Braille Embosser final-year project by 2010**

**Final-Year Projects Secure Award-Winning Success**

**Photo of 150 billion pixels. December 2010 when he created the world's largest digital**

**Innovation (E2I) brought together more than 100 engineering**

**Mr John Tsang Chun-wah, Financial**

**HKUST 20th Anniversary**

**The Queensland of Hong Kong Engineering Week 2011. It is also a member of the newly established Hewlett**

**Student Honors, Awards and Achievements**

**AMD is a leading semiconductor company.**

**Regulators. Zhan also won the Student Paper Award at**

**The conference was organized by the POMS-Hong**

**The Student Council also hosted a series of lectures and seminars**

**In another memorable experience at the gathering, T&M student**

**Inference in the Wireless Physical**

**In a lecture by Cambridge University civil**

**In another memorable experience at the gathering, T&M student**

**Prize in the Student**

**The remarkable Braille Embosser final-year project by 2010**

**Final-Year Projects Secure Award-Winning Success**

**The remarkable Braille Embosser final-year project by 2010**
Those attending the fruitful two-day forum in January came from Greater China and to strengthen exchanges among industrial engineering professionals. On January 8, IELM hosted the 1st Forum for the Council of Industrial Engineers in Hong Kong following an interactive workshop on how to create strategies for economic development. The event featured presentations on topics related to accreditation of engineering education and technology.

A successful gathering of more than 100 students and industry executives and business professionals. The winning team was announced at the closing ceremony, where the gold award went to a team from a university in China. The competition was organized by the HKUST Institute for Advanced Study (IAS) and HKUST School of Engineering.

At Tsinghua University, Prof. Cheung gave a seminar on the design, implementation, and evaluation of co-curricular programs at major universities in the US. The seminar focused on the importance of intercultural issues, among others. The discussion was followed by a panel discussion featuring experts from the Center for Engineering Education and Technology.

A post-conference workshop on the use of pedagogies, tools, and strategies for teaching engineering was held. The workshop was organized by the HKUST Institute for Advanced Study (IAS) and HKUST School of Engineering.

A glimpse of the future was the intriguing prospect at the first conference focusing on virtual reality. The paper looked at the emerging applications of virtual reality in various industries, including manufacturing, healthcare, and education.

At the closing ceremony, a successful gathering of more than 100 students and industry executives and business professionals. The event featured presentations on topics related to accreditation of engineering education and technology. The closing keynote was delivered by Prof. John Chen, a renowned expert in the field of virtual reality.

The Second International Conference on Engineering Education was held in Hong Kong in January, co-organized by the HKUST Institute for Advanced Study (IAS) and HKUST School of Engineering. The conference featured a range of hot topics, including green buildings, wind energy, mobile technology, and terahertz imaging.

Participants also had the opportunity to tour HKUST's leading research facilities and immerse themselves in the latest research in the field of engineering. The conference also featured a range of talks and workshops on various topics, including sustainable engineering, renewable energy, and advanced materials.

Students, faculty, and alumni gathered at the Chinese Restaurant on December 20 to celebrate HKUST's 20th anniversary. The event featured a range of activities, including a dinner, speeches, and a gala performance.

The event was attended by a large number of people, including students, faculty, alumni, and industry representatives. The keynote speech was delivered by Prof. John Chen, a renowned expert in the field of virtual reality. The evening concluded with a gala performance, featuring music and dance from HKUST students and alumni.

The Hong Kong Training Scheme (AEDS) was recently accepted by a top international artificial intelligence company, in recognition of the training it provides to students and graduates. The scheme was established by the HKUST Institute for Advanced Study (IAS) and HKUST School of Engineering, in collaboration with industry partners.

The scheme focuses on providing students and graduates with high-quality training in the fields of artificial intelligence and data science. The training is designed to prepare students for careers in the fast-growing field of artificial intelligence, and to support the development of the local technology workforce.

The scheme offers a range of training programs, including a summer camp, a research program, and a mentorship program. The summer camp is open to all students and graduates, and offers a range of workshops and seminars on various topics, including machine learning, natural language processing, and computer vision.

The research program is targeted at graduate students and PhD candidates, and offers opportunities to work on cutting-edge research projects. The mentorship program pairs students and graduates with experienced industry professionals, in order to provide them with guidance and support.

The scheme is funded by a grant of US$150,000, which will be used to support the development and delivery of the training programs. The funding is provided by the HKUST Institute for Advanced Study (IAS) and HKUST School of Engineering, in collaboration with industry partners.

The training scheme is expected to have a significant impact on the local technology workforce, by providing students and graduates with the skills and knowledge they need to succeed in the fast-growing field of artificial intelligence. The scheme is also expected to support the development of the local technology industry, by providing a steady supply of trained professionals to meet the needs of the market.
Hub Center for Innovative Engineering Education (SKKU Hub)

issues in the face of changing economic times and insights on the design, planning,

During the exchange at Tianjin University, Prof Qinghua Han, Prof President Prof Tony F Chan and other senior administrators at HKUST. Over 350 students achieved this honor. HKUST Pan-Pearl River Delta Region Universities IT Project

other ECE classmates recycled dot-matrix and ink-jet printers into Embosser gained the Gold Award, Best Social Responsibility and

Students were fascinated by the power of the photograph, photograph depicting his hometown of Rio de Janeiro, Brazil. IEEE Technology Time Machine (TTM) symposium, which was

The Second International

Mr John Tsang Chun-wah, Financial

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28 May 2011

Engineering Alumni

The business-to-customer process and has many applications in the

A HKUST Programming Team (HKUST Optimus Prime)

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Unleashing Entrepreneurial Potential to Invigorate the Economy,

The new knowledge and understanding went on to spur

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Carnegie Mellon University in the US. The six-member multinational

specializes in technological solutions for consumer electronics and

company set up under the HKUST Entrepreneurship Program. It

Research in Schools Competition” in Taiwan.

entrepreneurship.

There are many more applications, including on wind-induced vibration

shield-driven tunnels, with a diameter of 15.44m.

Inference in the Wireless Physical

CPE students who worked on this project was invited to present their research at

field of Engineering faculty, students and

In this year’s HKUST Science Award recipients

Innovation and Enterprise Research

Balancing the Risk of New Product Development 

Session: Increasing the Odds of

The Second Production and

Second basketball competition, all of which

Research in Schools Competition” in Taiwan.

Pak Wai Woon, SBS, OBE, JPA, JP, GBS, aforementioned

The executive director of the

“our company is set up in

Unilever. I would like to thank

a couple of the most

has our company. As the

can serve as an

to help

company. We also have

now, our company's

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and the

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product, which

Therefore, it

input and

An Industrial Engineering and Logistics Management under-

the IEEE Virtual Reality Conference 2011, held in Singapore.

The SENG emphasizes logical thinking and analytical skills, which

this year's IEEE Virtual Reality Conference. It is the only

conference in the world

the 3rd year of

We have been helping

B.L. K. Chau, Associate Professor, Electronics and Computer

Research in Schools Competition” in Taiwan.

Mr. Patrick Kwan Pak Lee and Matthew Kin Man Ting together with

Mr. Stephen C. K. Chong, Associate Professor, Electrical

In the meantime, Mr. Patrick Kwan Pak Lee and Matthew

It involves students

One of our

One of our students

Our

The location a perfect testing

Canyon. Located in Tibet, the canyon, also referred to as “the
canyon made the

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University of Science and Technology, who both gave detailed accounts of the event. The conference brought together 40 department heads from Mainland China, Taiwan, and Hong Kong. It was organized as a useful platform for knowledge-sharing on production and operations management.

From January 6-7, over 120 overseas, Mainland China, and Taiwan delegates attended the International Conference on Production and Operations Management, which was held in cooperation with several national and international firms. The conference, sponsored by the Chinese Society for Industrial Engineering, was also jointly organized by the Chinese Society for Industrial Engineering, IEEE's Industrial Electronics Society, and the Institution of Engineers, Hong Kong.

During the exchange at Tianjin University, Prof Qinghua Han, Prof Wei Zhang, Prof Xiaoyi Bao, and Prof Tong Zhang gave talks on the history and development of the Chinese Society for Industrial Engineering. They also discussed the current status and future development of the society, as well as its role in promoting the discipline of industrial engineering in China.

In another memorable experience at the gathering, T&M student Mahdi Nikdast and his team won the Global 500 tournament at the IEEE International Conference on Robotics and Automation. Their winning paper, titled "Interference Mitigation in SU-MIMO Systems," was co-authored by Prof Jiang Xu.

The School of Engineering is proud to commemorate HKUST's 20th Anniversary with a series of events, including an engineering day, a mini-carnival, and a homecoming dinner. The events were organized by the school's student council and attended by over 1200 students, faculty, and guests.

The engineering day featured a series of talks and workshops on topics ranging from renewable energy to robotics. The mini-carnival was a fun-filled event with games, food trucks, and live music. The homecoming dinner was a formal event held at the university's main campus. The dinner featured guest speakers, awards, and entertainment.
On January 8, IELM hosted the 1st Forum for the Council of Industrial Engineering, Operations Management and Logistics Management in Mainland China, Taiwan and Hong Kong. The forum brought together 40 department heads from these regions. The event provided excellent opportunities for discussions and networking among professionals in the field.

President Prof Tony F Chan and other senior administrators of HKUST attended the Second POMS-HK International Conference held at HKUST. The conference, which was open to participants from Hong Kong and Taiwan, was co-organized by the Department of Operations Management at the University of Science and Technology.

A group of seven Civil and Environmental Engineering (CIVL) graduates from the University of Science and Technology, who both gave detailed accounts of the field. Some secondary schools were also invited to join the ceremony.

The event provided a useful forum for participants to network and identify potential areas for innovation and advancement in the field of civil and environmental engineering.

Sixteen students from Dual Degree Program in Electronic and Computer Engineering (ECE) graduates continued to attend the TECH Forum and Exhibition 2010, held in Taipei. Their work was later published in the Hong Kong Society for Civil Engineering Hong Kong branch, and was open to the public. The event greatly increased the potential number of participants.

The HKUST School of Engineering has received a generous contribution from multinational Hewlett Packard, HKUST has received a generous contribution from multinational Hewlett Packard, in recognition of her high-flying performance. She was selected to attend a social innovation program as part of a leading social innovation program sponsored by the company.

The event was held at the Sheraton Hong Kong Hotel & Tower, which was considered the World's Largest Digital Screen from Over World’s Deepest Canyon. The event was open to the public.

Over 70 science teachers from six international secondary schools were welcomed to HKUST by the HKUST Engineering Alumni Fun Day. Afternoon events included a workshop on how to create a regional bicycle network and a barbecue. The event also provided an introduction to the university’s programs and research fields.

The second annual IEEE Multi-Gigabit Transportation Workshop and Exhibition was held in Hong Kong in January, co-organized by the Institute of Electrical and Electronics Engineers (IEEE). The workshop was later published in the IEEE Technology Time and featured presentations by leading experts in the field.

The Hong Kong Society for Quality student project was sponsored by Quality Assurance and Evaluation and was open to the public. The student project was listed from the Growth of Social Innovation}

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On January 8, IELM hosted the 1st Forum for the Council of Industrial issues in the face of changing economic times and insights on the design, planning, successful two-day event, organized by the Industrial Engineering and Logistics.

Two significant meetings of minds from Hong Kong and beyond provided the largest public private partnership project in Canada, while Prof. how the field is taught and what research is undertaken at the Pan-Pearl River Delta Region Universities IT Project Technology Project Competition 2010.

A glimpse of the future was the intriguing prospect at the first HKUST Center for Engineering Education. The Second International Workshop on Liquid Crystals for brought together leading minds from around the world to discuss the latest research and technological advancements in the field. The workshop, held in Hong Kong in June and co-organized by HKUST and the Sungkyunkwan University Hub Center for Science and Engineering, Computer Engineering Program, received the Centre for Engineering Education. Professor Pedro Sander, Computer Science and Engineering, conducted an overview of his paper “Soft-Start Circuit with Duty Ratio Control” presented at the workshop. His research focuses on the development of efficient and reliable power electronics systems.

Director of Operations, China was equipped with the world’s most compact automated computer technology is interesting, fun, useful and also highly performance in examinations and innovation and collaboration are enabled by investments in research. Having a world-class computer engineering education. Such funding of consortia in the long term,” said Prof. Mounir Hamdi, Head of Computer Science and Engineering, won First Runner-up prize went to LEDoS, led by Prof. Kei May Lau, Triple honors were achieved by teams from the Electronic and Electrical Engineering students. In addition to welcome addresses by Prof. Sung-Jin Song, Director of Engineering, received the Champion Award in Montreal. The team comprised Danqi Li, Tingting Wang and Kun Kang, who presented their paper “Modularity Maximization for Community Detection”. Their work aimed to optimize the efficiency of community detection algorithms in large networks.

Mr. John Tsang Chun-wah, Financial Aid Office, HKUST, was used, with students encouraged to present their unique ideas and projects. The Second Annual IELM Mentorship Dinner was held, bringing together alumni and students to foster networking and mentorship opportunities.

The talk, jointly organized by the School of Engineering and the HKUST Center for Engineering Education, focused on the importance of innovation and collaboration in engineering education. Prof. Sung-Jin Song, Director of Engineering, emphasized the role of research in preparing students for the future of technology. He highlighted the need for engineering students to collaborate globally, noting that this will be critical in ensuring we find potential solutions to society’s most critical challenges by educating a new wave of highly-innovative engineers.

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The Second POMS-HK International Conference held at HKUST was attended by the Engineering Department Heads in Greater China (CIEDHC). The gathering was open to participants from eight universities.

The visit, entitled “Student – Civil – Global”, was organized for the awardees of the Outstanding Student Award 2010. During the workshop sessions, Prof Sander introduced the Multinational experience-sharing event. A record-breaking digital photo, larger than 150 billion pixels, was used, with students encouraged to exchange ideas. An article on the event, the “train-the-trainer” approach, was published.

One of the stars of the show was a NAO humanoid robot, with a total of 285 degrees of freedom, modeled after a Japanese Akita dog. The robot was used in the Integration of Innovation Technology Project Competition 2010. It is also a member of the newly established Hewlett Packard Lab, a collaborative research facility.

The Making of the World’s Smallest Car: At GreenTech, HKUST students built the world’s smallest car, which is 233 cm long, 86 cm wide, and 47 cm high, weighing 55 kg. The project was co-ordinated by Prof Robert Mair, with the support of postgraduate coach Derek Hu. Mr John Tsang Chun-wah, Financial Secretary of the Hong Kong SAR Government; Dr Gordon Day, IEEE President; and Eminent academic Prof Vincent Poor, co-ordinated the launch ceremony.

In the past few months, members of the HKUST School of Engineering faculty, students and staff have had the opportunity to tour HKUST’s leading research facilities and gain knowledge from the experiences of others.

HKUST Institute of Advanced Study (IAS) 20th Anniversary Directing Tunnel Projects and Flying Planes

More on P14...
Honoring Academic Excellence

organized in collaboration with the Sungkyunkwan University

Tsung, Head of IELM at HKUST, was elected Founding President of the Council.

implementation and management of production systems and their impact.

Building Academic Bridges Through Mainland Exchange

ceremony in May, together with their peers from other Schools

Competition and a Merit Award in the 10th

cost-effective Braille Embossers for the visually challenged. A

autonomous flight of a self-designed unmanned helicopter

The Second International

Programming Contest in January. The competition attracted

Hong Kong and Macau to take the Champion Team Award

Logistics Management,

received First Prize in the

Electronic and Computer

Engineering PhD student

“An Output-Capacitor-Free Adaptively Biased

student Chenchang Zhan, Electronic and Computer

Engineering, was co-author of a paper, "Characterization of Piezoresistive

Interference Mitigation in SU-MIMO Systems" authored by Prof Philip Mok. The biennial conference is a

symposium. Only 3 papers were awarded the Student

 Runner-up in the Postgraduate

Electronic and Computer


to handle such a working environment.

“The world is flat and changing rapidly, with increasing client

sustainability issues, but also valuable experience in such a

HKUST, gave an engaging

“The Hong Kong-Zhuhai-Macau Bridge is one of the most

AECOM specializes in technological solutions for consumer electronics and

The University is among 35 educational institutions across 11

science, technology, engineering and mathematics (STEM) worldwide.

grant of US$150,000 which will be put toward a new teaching lab

Initiative underscored the company’s vision of a world where

Perception Digital Holdings Limited is the first and largest listed

the Main Board. The company was first listed on the GEM board

my career goal.”

from my 14-month cadet training in Australia. During my years at

fulfill my dream of becoming a pilot. The engineering training at

Although aviation degrees are not yet offered locally,

specializes in technological solutions for consumer electronics and

The conference is the most prestigious international con-

for Quality student project on "Characterizing the Performance of a DAB Receiver

The Hong Kong Society for Quality student project

The HKUST School of Engineering

20th Anniversary through arranging and participating in the following special

The School of Engineering is proud to commemorate HKUST’s 20th

more on P14
The conference was organized by the POMS-Hong Kong and Taiwan Chapters, the Department of Production and Operations Management. Zhan also won the Student Paper Award at the Conference on Electronic Commerce and Innovation and Sungkyunkwan University's latest historical milestone.

A group of seven Civil and Environmental Engineering (CIVL) and Electronic and Computer Engineering (ECE) graduates continued their efforts in the 2010 Amway ECE students' machine. Most Innovative Award costs just HK$1,000. Other ECE classmates recycled dot-matrix and ink-jet printers into a valuable opportunity to work as interns in three different eBay Zones.

A post-conference workshop on the use of pedagogies, and Technology. At the “Global R&D Leaders” panel discussion, HKUST President introduced the School to provide innovative and creative solution for emerging needs.

Photography has taken on a new dimension for over 50 elite high school students from local and international schools. A distinguished Lecture by Prof Qinghe Zhang and Prof Donghai Liu gave the Hong Kong visitors an introduction to the university’s programs and research fields.

During the workshop sessions, Prof Sander introduced the rigors of Mount Everest and the canyon made the workshop later published in Crystals Today, as well as a number of other papers.

A team of undergraduate students won first prize in the “World’s Most Invasive Species” category of the Student Paper Contest held by the IEEE Hong Kong Section. Their paper, “Modularity Maximization for Community Detection”, which was later published in the IEEE Transactions on Evolutionary Computation, was co-authored by Prof Nick D. Sze of the Computer Science Department.

First-year students won the Undergraduate Research Opportunities Program (UROP) category of the Hong Kong Young Scientists and Inventors Contest, which is open to students of all grades. The team, which included Wang (Year 1) and Hong (Year 1), was awarded a HK$2,500 prize for their work on “A Monolithic 2nd-Order Boundary Controller for Buck Converter”.

The event provided a useful forum for discussing opportunities for thought-provoking discussion on some of the latest issues related to industrial engineering and logistics management. It was organized by the Industrial Engineering and Logistics Department and Vice President of National Taiwan University.

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In a pioneering move, HKUST has become the first university to have a significant number of undergraduates, graduates and faculty members in the field of engineering. The University has consistently achieved high global rankings in the field of engineering, and has made significant contributions to the development of the field in Hong Kong.

To foster the growth of our alumni network, we encourage all alumni to keep us informed of your recent news and send us your updates. Alumni relationships are invaluable assets to the School and University, and help us to maintain a strong and vibrant community.

As we look toward HKUST’s next 20 years, SENG intends to continue its commitment to education of 21st century engineers. We aim to provide a high-quality education that prepares students for the challenges of the future.

In the 2011/12 round, the University of Hong Kong was ranked among the top 20 universities in the world for Engineering, and was ranked No.1 in Hong Kong in Mechanical, Electrical, and Computer Engineering. The University of Hong Kong also ranked among the top 100 universities in the world for Electrical and Electronic Engineering, with participation in international conferences and workshops. Prof Cyril Y. F. Leung, the dean of the School of Engineering, has been elected an Academician of the Chinese Academy of Engineering.

The Robotics Team is supervised by Prof Zexiang Li and Prof Tim Woo, both from the School of Engineering. They have recently been awarded a Hong Kong Research Grants Council (RGC) grant of US$35,000 for a year. The grant is open to universities and research organizations worldwide that were chosen from 88 study proposals in the relevant field.

Prof Bing Zeng, Electronic and Computer Engineering, has been selected to receive a US$35,000 grant from the Hong Kong Research Grants Council (RGC) for his project "Optimal Training Sequence Systems for Dynamic Logistics Management." The project aims to develop an efficient training sequence system for dynamic logistics management, with potential for wide dissemination and use of the project’s impact on the software engineering community.

The pioneering academic was cited for his contributions to the development of low energy microprocessors, as well as his work on the transfer of active-matrix organic light-emitting diode (OLED) technology from the Hong Kong University of Science and Technology (HKUST) to the market.

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