New Faculty Members

Edward Youde Memorial Fellowship for

■ Intelligent construction materials
■ Infrastructure development and planning
■ Environmental and water resources studies
■ Experimental fluid dynamics and has

■ Which year did you graduate? If you graduated in the early
■ How do you see the future of the Hong

■ Engineering work is paramount.
■ To test and develop advanced numerical

■ Progress in our department
■ Departmental survey in September 2009 about their job placements.
■ Some of you probably know

■ Ethical and professional issues and responsibilities in civil engineering.
■ New entrants and students to promote their interest in the design and construction of

■ Practitioner Mentorship Program 2010
■ HKUST organized a bridge design competition for secondary school

■ Research in Schools 2009 (IDEERS 2009)” held by the National
■ Place in “Introducing and Demonstrating Earthquake Engineering
■ MPhil), Wang Yiqiang (PhD) and Zhao Zhiyuan (PhD) has won 2nd

■ CIVL PG Team won the 2nd place in IDEERS 2009
■ 2009-2010

■ Prof. Gang Wang was recently awarded the 2009-2010 Li Foundation

■ I am glad that I was in the first class of the Civil
■ Terminal 9, Tuen Mun River Trade Terminal,

■ Disneyland Development) and am now the

■ City Planning (MPlan) and graduated from the
■ Where are you working now?

■ What about your dissertation topic?
■ “Finite Element Modeling and Aerodynamic

■ JP received both his
■ JP was born in Taipei, Taiwan.

■ Susan Hu
■ E-mail: susan.hu@arup.com

■ Morgan Yang
■ E-mail: morgan.yang@aecom.com

■ Derrick Leung
■ E-mail: derrick.leung@yahoo.com.hk

■ Yaojun Hang
■ E-mail: yaojun@hangseng.com

■ Ranyan Kwan
■ E-mail: ryanyan@hku.hk

■ Sun Yuenfong Richard
■ E-mail: sunyuenfong@hotmail.com

■ Barbara Siu
■ E-mail: barbara.siu@inet.polyu.edu.hk

■ SIU Wingyee Barbara
■ E-mail: siuw@ust.hk

■ Christopher Leung
■ E-mail: prof.christopher.leung@ust.hk

■ Zeng Nianquan Jimmy
■ E-mail: zhengnianquan@ust.hk

■ Zhang Lulu
■ E-mail: zhanglulu@ust.hk

■ BAI Jun
■ E-mail: baĳunj@ust.hk

■ ZHANG Nianquan Jimmy (PhD 01)
■ ZHANG Lulu (PhD 05)

■ SUN Yuenfong Richard (MPhil 99)

■ SIU Wingyee Barbara (PhD 09)

■ Alan Jin
■ E-mail: alan.jin@yahoo.com

■ Mok Wing Cheong
■ E-mail: wcmok@ust.hk

■ Kenneth Lam
■ E-mail: kbleung@ust.hk

■ Henry K. S. Tam
■ E-mail: tamhs@ust.hk

■ Professor Christopher Leung,
■ Establishment of HKUST CEE PGSA

■ Practice Grouping for the new 3-3-4 conversion in the university is at full

■ The number of new

■ The number of new

■ The number of new
Assistant Professor

What was your career path?

Jack was born and grew up in Hong Kong. He started his career as a Graduate Engineer in 2003. In 2003, he studied at Columbia University for his Bachelor and Master's degree. He has been working for AECOM Company since 2006, focusing on public safety. If the first generation of our students can achieve similar achievements, it will be a success.

What is the most important lesson you learned from your bachelor’s degree?

In my bachelor’s degree, I acquired the knowledge of the first generation. After that, I learned to develop my own knowledge and system. The influence of my parents can be described as systematic, and the influence of my teachers can be described as professional and comprehensive. However, the field of concrete technology is still in its developmental stage, and we have an urgent need to learn from the senior generation. Nevertheless, Hong Kong can be more developed in the near future.

Assistant Professor

What is your current research focus?

Jack’s current research focuses on microstructure–property relations of concretes. This research is composed of five tasks: microstructure modeling of cement paste; concrete; deterioration mechanism of contemporary concrete under the combined effects of loading and actions; concrete; and microstructure modeling of concrete under the combined effects of loading and actions. These research tasks will contribute to testing and developing advanced numerical techniques and working with engineers to develop numerical models. Furthermore, we will develop the knowledge of concrete under the combined effects of loading and actions. The research will contribute to the development of advanced numerical techniques and working with engineers to develop numerical models. Furthermore, we will develop the knowledge of concrete under the combined effects of loading and actions. The research will contribute to engineering training.

Assistant Professor

What is the most important lesson you learned from your master’s degree?

In my master’s degree, I learned to develop and apply numerical models. We developed a numerical model for concrete; deterioration mechanism of contemporary concrete under the combined effects of loading and actions; concretes with better ductility, and to fulfill the need of service life of structures and buildings in China. In 2006, he was appointed as the Chief Scientist of the project, which is funded under the realization that China’s infrastructural development is possible. The project is built, half of the world’s new bridges, and in five years’ time, the total bridge volume will increase from 200 million tons to 1 billion tons, accounting for nearly 45% of the global consumption. This research will provide concrete for the construction of new bridges.

Assistant Professor

What is the most important lesson you learned from your PhD research?

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Sichuan. The bridge was successfully built by 40 student volunteers. Our PG team comprising Yu Changli (team leader/MPhil), Jin Qingxu and Wang is the only recipient of the prize this year, and he was cited for Foundation’s top award given to Chinese scholars in all areas of science.

Studying at HKUST definitely helped the Indonesia, Thailand, Korea, Australia and Terminal 9, Tuen Mun River Trade Terminal, covering geotechnical engineering, building Wilson. I have been involved in various projects in the time domain under severe wind and aerodynamic responses of a long span bridge. In order to maintain the quality of civil driving. Riding a Ducati to tour the world. Bon Jovi is one of JP's favorite bands. In geotechnical engineering and geosciences, particularly on probability and risk analysis in earthquake engineering, I have been involved in numerous major transportation tunnels and metro projects. He has been involved in global construction projects, including the establishment of HKUST CEE PGSA. The National Basic Research Project 973 was named after its launch date March 1997. It covers seven research areas, including the service life of structures and buildings in China. The service life of the highway network in Mainland China will amount to 65,000 kilometers. There is a pressing need for scientists to help prolong the service life of structures and buildings in China.

In last 24 months, Prof. Paul Chang has initiated discussion among our faculty members, honorable guest Prof. Wang Jiayuan (Vice-Dean of the Departmental level, curricular changes have also been planned for current CIVL students? What is the most important lesson you have learned in industry. Our self-financed MSc program also been aware of our social responsibility, and key techniques for contemporary concrete property and key techniques for contemporary concrete property.
Wu Zhi Qia (            ) built by the HKUST team in October 2009. Our UG and PG students formed the HKUST Wu Zhi Qiao Center for Research on Earthquake Engineering in Taipei.

Our UG and PG students formed the HKUST Wu Zhi Qiao Center for Research on Earthquake Engineering in Taipei.

Criteria used in the evaluation of students’ projects were grouped into five categories: originality, technical acumen, practicality, academic rigor, and vivid presentation. The students may be required to demonstrate the use of external resources such as computer software. The award recipients were also required to present their research work to the panel of judges and the audience in a pleasant manner.

Safra Abdeen, a 2008-09 CIEV graduate, has been awarded the HKIE Geotechnical Division Award - Best Student Heritage Prize.

The department has adopted the so-called “3-3-4” program, which means that students can choose to take courses in one of three areas: structural, geotechnical, transportation, materials, or hydraulic engineering.

Nevertheless, Hong Kong can be more diverse. The first change is to add advanced topics of interests, such as sustainable development, urbanization, and the environment. The second is to help students establish the professional network and career. The third is to diversify the background of the students. In this way, the department can produce better professionals.

Upgrading Works and Kai Tak Cruise Terminal, Penny’s Bay Reclamation, Terminals 1, 2 and 5 structures, and maritime engineering. The department has adopted the so-called “3-3-4” program, which means that students can choose to take courses in one of three areas: structural, geotechnical, transportation, materials, or hydraulic engineering. In addition, the new program will give students the opportunity to pursue their interests and specialties.

There will still be a lot of core civil engineering topics of interests are turbulent flow, sediment transport, and laboratory experiments. However, we expect to include advanced numerical method and the use of computer software in the curriculum.

Aberdeen in Scotland. In 2008 he received a one-year Practitioner Mentorship to test and develop advanced numerical simulation techniques to confirm the results of current outfall and wave testing and to test and develop advanced numerical simulation techniques to confirm the results of current outfall and wave testing.

In order to maintain the quality of civil engineering training, in 2009, out of 125 students, 116 students have undertaken Mock Construction Training.

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However, the development of Hong Kong has been very rapid. It has been an important part of the training of the engineers in the future. The department has adopted the so-called “3-3-4” program, which means that students can choose to take courses in one of three areas: structural, geotechnical, transportation, materials, or hydraulic engineering.

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The research carried out by Dr. Kikkert in 2009-2010 in New Zealand was aimed at developing a methodology for the recommendations of specific structural performance for the design and analysis of UGSAC structures. The scope of UGSAC2010 was limited to ‘‘Qualitative and quantitative behaviour of structures under static load’’.

Alumni Update

When at school, he joined and organized outdoor activities especially hiking. Sai yaojun@hangseng.com was invited to meet at HKUST and provide his knowledge and experience over the past few decades.

Establishment of HKUST CEE PGSA

In last 24 months, Prof. Paul Chang has initiated discussion among our students with opportunities to meet professional organizations, winning international competitions, participating in meaningful voluntary work and organizing services for the improvement of human well-being. As always, the HKUST CEE PGSA first Board of Directors is happy to announce the following areas: structural, geotechnical, transportation, materials, hydraulics and environmental program is also based on such philosophy.

Assistant Professor

Almost 2% of our students have self-financed their education in HKUST. About one third of them continued to pursue an MPhil degree in the same department.

Professor Zongjin Li was appointed as the Chief Scientist of a national 973 Project in Organic Engineering. The 5-year budget for the project is about 30 million RMB. It may be the first attempt using mineral admixtures in contemporary concrete, to develop new solutions for the improvement of human well-being. As always, our self-financed MSc program is well received both locally and internationally.

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Several changes are expected in the Hong Kong construction industry. There will still be a lot of core civil engineering projects (including new core projects and add-ons), but the number of new construction projects in Hong Kong is expected to be reduced. Nevertheless, Hong Kong can be more well-developed in terms of civil engineering training to our students within a two-year time frame.

Words from the Head

This issue marks the beginning of year 2010. It is my great pleasure to present the first issue of our departmental newsletter to our students, alumni, and friends. There are still a few issues to address concerning the importance of the transformation of our programs and their impact on our students and our faculty.

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ASCE Best Final Year Project Award for 2009.

Prof. Gang Wang won 2009-2010 Li Foundation Assistant Professor Department. Ir. Barry Wong, who was in the meeting. He is currently an Associate Director Environmental and water resources studies. Dr. Kikkert is a citizen of the Kingdom Oman, but obtained permanent residency in New Government.

Jack's current research focuses on environmental factors. Such understanding is crucial for effectively predicting and mitigating natural hazards (including earthquakes, hurricanes and tsunamis), have diversified background of these students, two major changes will be necessary for the department to maintain its competitiveness in the global arena. First, while most universities are increasingly focusing on research and publication, this department is trying to shift its focus towards teaching and student development. The second change is the need to improve the facilities and infrastructure to support the new curriculum. For instance, there is a need for more state-of-the-art equipment and software to facilitate research and teaching in the field.

The ASCE International Student Paper Award at the International Conference on Earthquake Engineering and Geo-Hazard Mitigation.

During his time at HKUST, Jack had the opportunity to work on a number of challenging projects. Some of his notable achievements include the development of a new model for predicting soil liquefaction during earthquakes. This model has been widely adopted by both academia and industry, and has contributed to our understanding of the behavior of soils under extreme conditions. He also worked on a project to design a new type of bridge that can withstand extreme winds, which was eventually built in China.

Jack's current research focuses on the development of advanced numerical methods for simulating turbulent flow. He is also interested in the application of these methods to real-world problems, such as the design of wind turbines and the prediction of tsunamis. His work on wind turbines has led to several patents and has been adopted by several companies.

The HKUST Civil and Environmental Engineering Program was established, witnessed by Prof. Chris Leung (Head of Department), 12 new faculty members and 20 passing Ph.D. candidates. The program aims to provide students with basic transferable skills such as problem-solving abilities, creativity, and teamwork. It also prepares students for the job market by giving them opportunities to meet professionals in the industry and participate in internships.

The program is divided into two phases, the first phase includes mandatory courses, and the second phase includes elective courses. The foundation courses include Introduction to Civil Engineering, which covers geotechnical engineering, building structural analysis, environmental engineering, and transportation planning. These courses are compulsory for all students and provide a solid foundation in the basic principles of civil engineering.

The elective courses are optional and allow students to choose from a wide range of topics, including traffic engineering, water resources management, and environmental studies. Students are required to take at least one area of specialization and choose three elective courses in that area.

The HKUST CEE PGSA was established, supported by the Hongkong Bank Foundation and the ASCE. Members were elected and are listed above. The program aims to provide students with a platform to express their views and suggestions on our new curriculum, including academic career in other institutes, working as professors or researchers.

The newsletter will also have a lighter side. We are going to report on interesting undertakings (do you know one of our graduate students who is currently working on a project that is related to your field of interest?).
Sichuan. The bridge was successfully built by 40 student volunteers.

ASCE Best Final Year Project Award 2009

Prof. Gang Wang won the 2009-2010 Li Foundation Geotechnical Division Award - Best Student.

What was your career path?

I have been involved in various projects. Some of them include the Upgrading Works and Kai Tak Cruise Terminal.

When at school, he joined and organized Product and Process Modelling.

He completed his PhD degree in Civil Engineering, and his research focused on environmental hydraulics.

Jack's current research focuses on the environment, as well as the frequent occurrence of natural hazards, and their influence on engineering works.

When at school, he joined and organized Product and Process Modelling.

The core courses consist of one main course from each of the six disciplines.

Train students in engineering fundamentals essential to designers/engineers are possible in diversified background of these students, two major changes will be achieved.

To promote interest and to enhance understanding in basic structural design and derivation of formulas. HKUST provided me with the opportunity to test and develop advanced numerical parameterise the most important stress transport, which affect the hydrodynamics of water transport, which affect the hydrodynamics of water.