



School of Energy and Environment

Newsletter



School of Energy and Environment

香港城市大學
City University of Hong Kong

April 2020 Issue

Dean's Message

By the time you receive this issue of the SEE Newsletter, dear readers, we hope that the crest of the COVID-19 threat will have passed, and we can now resume our role in restoring Hong Kong to its energetic and successful path.

Since the viral outbreak, the CityU family has been working hard to overcome new challenges. We have moved fast to ensure teaching and learning were not interrupted. As with the rest of the University, online teaching at SEE started on 7 February 2020, one week after the scheduled resumption of Semester B. Our teaching and technical staff began their hard work immediately after Chinese New Year to install and test the online teaching software. Our students also made commendable efforts to learn the software before teaching resumed.

Still, online teaching is totally new territory for us. Our star professors, whose physical presence and stylish delivery inspire awe and hunger for knowledge, will now have to display their charisma in front of the camera. As expected, we were confronted with technical problems, such as resolution quality, connectivity and time lags in transmission. Luckily, we are proud to say that the teachers, staff and students came together as one to solve these problems. Our online platform is not short of students' feedback welcoming and supportive regarding their positive and novel experience of online learning. By the end of the first week, we had overcome most of the technical hurdles. Our attention can now turn to enriching students' learning experience through online career talks and tech talks, developing replacement activities for field trips and engaging students in online meetings with their academic advisors to ensure academic progress continues in this different learning scenario.

We are resolved not to let the turmoil of this public health crisis hold us back from meaningful pursuits. I am delighted to announce the arrival of two new SEE faculty members. Professor Wang Wen-Xiong is a world-leading researcher in the areas of environmental chemistry, the toxicology of metals (including mercury) and nanotoxicology. Dr. Wang Xuan focuses his research on understanding the chemical composition of the atmosphere and its impact on air quality and climate change. In the next section, we will give you a more in-depth introduction of their research interests.

We are thankful, during these trying times, that we can still find new opportunities and positive developments. It is the Hong Kong people's spirit of solidarity, perseverance and resourcefulness that fuels our optimism. We "can-do". We will continue to make our beloved city thrive.

Best,

Professor Chak K. Chan
Dean of School of Energy and Environment
City University of Hong Kong



Content

DEAN'S MESSAGE.....	1
NEW FACULTY	2
RESEARCH DEVELOPMENT	3
RENOVATION OF SEE OFFICE AND LABORATORY	5
ACADEMIC DEVELOPMENT AND STUDENT ACTIVITIES	5
OUTREACH ACTIVITIES.....	8
SEE 10 TH ANNIVERSARY	9
STUDENT AND ALUMNI ACHIEVEMENTS	10
ALUMNI STORY	10

New Faculty



Prof. Wen-Xiong Wang
Chair Professor

Prof. Wen-Xiong Wang has just joined SEE as a Chair Professor in Environmental Toxicology. Previously he was a Chair Professor in the Hong Kong University of Science and Technology. The current research

programme of Prof Wang includes: 1) nanotoxicology. Various state of the art bioimaging technologies are being developed to directly visualise the tiny nanoparticles and their associated metal ions in different groups of organisms. Direct visualisation enables us to understand the dynamics

and potential cellular toxic targets of nanoparticles; 2) estuarine pollution. The study area mainly focuses on the Pearl River Estuary, the second largest estuary in China and adjacent to Hong Kong. The research mainly focuses on the identification of different pollution sources using sophisticated tracer techniques, the transport/transformation of different pollutants as well as their impacts on local estuarine systems at different biological levels (from cellular to population levels). Such study can be further scaled up to national levels such as the mapping of pollution in the entire coastal areas; 3) green farming of aquaculture. Research will focus on the development of green technologies in improving the quality of fish farming as well as reducing the environmental contamination. Methods are being developed to improve the water quality of estuarine and coastal environments.



Dr. Xuan Wang
Assistant Professor

Dr. Xuan Wang's research focuses on better understanding the chemistry and physics of the atmosphere, its perturbation by human activity, and the impacts on human life. More specifically, he engages in the

following research areas: 1) Global and regional atmospheric halogen chemistry; 2) Aerosol optical properties and their impacts on climate; 3) Secondary formation of air pollutants

in heavily polluted environment. His works are mainly based on developing model schemes for chemical transport models and earth system models, and using them to interpret observations from satellites, aircrafts, ground sites, and other atmospheric measurements.

Dr. Xuan Wang received his PhD degree in Environmental chemistry from Massachusetts Institute of Technology. He then became a postdoctoral fellow at Harvard University. Besides exploring the science, he is also highly interested in educating people on applying simple model simulations for real-world problem. He would teach the two (undergraduate and graduate level) Environmental Modeling courses in the School of Energy and Environment.



Ir Dr. Cary Chan, JP
Adjunct Professor

Ir Dr. Cary Chan, JP is a professional engineer and is currently the Executive Director of Hong Kong Green Building Council with the vision of driving the green building agenda for Hong Kong.

Cary is regarded as an expert on building energy efficiency by the industry. He pioneered "Knowledge Based Energy Management" in Hong Kong back in the late 90s. Using existing buildings as living laboratories, Cary has carried out a lot of researches relating to building energy efficiency. Cary has published over 25 papers sharing his knowledge with the industry. A number of his work have won international awards, which includes Client of the Year - Low Carbon Operation Award by the Chartered Institution of Building Services Engineers in 2010.

In 2018, Cary initiated a Memorandum of Collaboration to promote retro-commissioning in the Greater Bay Area

together with 6 other signatories including the Government and Tsing Hua University.

Cary played a key role in establishing Hong Kong's Green building assessment tool back in 1995. Since then he has been playing a leadership role on sustainable buildings within Hong Kong and abroad.

Over the years, Cary was active members to over 10 advisory councils and committees of the Government of HKSAR and he was appointed as Justice of the Peace (JP) by the government in 2017 with his immense contribution to Hong Kong community.

Cary was being awarded as an Honorary Doctorate by University College of Estate Management on 7 December 2019.

With Cary's solid experience in the fields of energy, environment and sustainability as well as his extensive connections with the different industries in Hong Kong and abroad, Cary will help strengthen the internship programme for the growing population of the undergraduate students in SEE and promote career opportunities for the students. He will also serve as our ambassador, promoting the achievements of SEE and CityU to different sectors locally and internationally.

Research Development

Research Grants

SEE strives for excellence in research activities to enhance the sustainability and liveability of megacities such as Hong Kong, as well as adapting them for climate change. This is achieved holistically through the development of innovative energy and environmental technologies, improving the

resource management of megacities with regard to water, energy and pollution, forecasting the impacts of climate change, and pursuing relevant policies. To facilitate our research, faculty members continue to apply for various external research grants. Below is the list of SEE projects that succeeded in obtaining grants from Fall 2019 to Spring 2020.

Early Career Scheme

Principal Investigator

**Project Title**

Network-Based Resilience Assessment of the Multi-Modal Public Transport System in Hong Kong

Dr. Shauhrat Chopra

Principal Investigator

**Project Title**

Source Contributions to and Effects of Aerosol Acidity on the Composition of Acidic Aerosols

Dr. Theodora Nah

Principal Investigator

**Project Title**

Study of Hybrid-Nanofluids in Superhydrophilic Wick Structure for Heat Transfer Enhancement in an Adsorption Cooling System for Hong Kong Buildings

Dr. Edwin Tso

Principal Investigator

**Project Title**

Development of a Hybrid Absorption Thermal Energy Storage Technology for Higher Storage Density And Efficiency with Lower Charging Temperature

Dr. Wei Wu

Funding from Guangdong Basic and Applied Basic Research Foundation

Principal Investigator

**Project Title**

Principle, Modulation and Optimization of Solar Hybrid-Energy Heat Pump

Dr. Wei Wu

Funding from Shenzhen Science and Technology Innovation and Technology Commission

Principal Investigator

**Project Title**

光誘導腐蝕機理研究應用於研制高效氧化劑復合光催化劑

(Remarks: English title is not available)

Dr. Yun Hau Ng

Funding from Innovation and Technology Commission (ITC)

Principal Investigator

**Project Title**

Development of a Novel Engineered Bacterium to Convert Furfural to High-Value Chemicals

Optimization of the Performance of a Small-scale Food Waste Treatment System by Tuning the Microbial Populations

Dr. Patrick Lee

Shenzhen Basic Research Grant

Principal Investigator

**Project Title**

Study of "Gating Effect" in Microporous Materials for High-Performing Gas Separation and Storage

Dr. Jin Shang

Funding from Innovation and Technology Commission (ITC) and two Mainland Companies

Principal Investigator

**Project Title**

Development of a New Multi-functional Converter for Electric Vehicle

Dr. Chunhua Liu

Research Projects Funded by HKSAR Departments [Civil Engineering and Development Department (CEDD)]

Principal Investigator

**Project Title**

Joint Probability Analysis of Extreme Water Level and Extreme Wave Condition

Prof. Zhou Wen

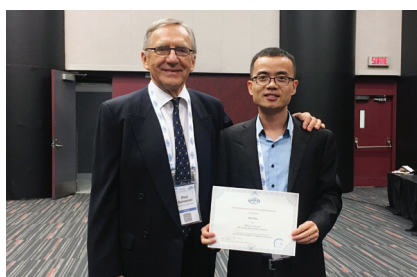
Prof. Chak Chan's Plenary Talk in ASAAQ



Prof. Chak Chan, Dean of SEE, gave a plenary talk on "Gas-Particle Interactions: Hygroscopic Properties, Phase Transformation and Heterogeneous Reactions of Atmospheric Aerosols" at the 15th International Conference on Atmospheric Sciences and Application to Air Quality (ASAAQ) in Kuala Lumpur on 28 October 2019.

ASAAQ was initiated in Seoul in 1985. Since then, it has been held in Tokyo, Shanghai, Seoul, Seattle, Beijing, Taipei, Tsukuba, San Francisco, Hong Kong, Jinan, Seoul, Kobe and Strasbourg.

Dr. Wei Wu Received the IIR Young Researcher Award



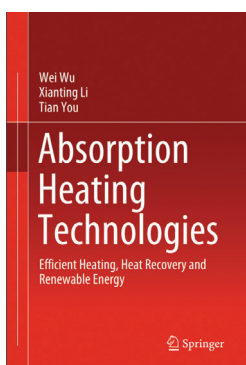
Dr. Wei Wu (Assistant Professor, SEE) won the IIR (International Institute of Refrigeration) Young Researcher Award, the highest award for young researchers in the HVAC area. These

prizes are awarded for outstanding research work performed by young researchers on subjects in the domain of competence of the IIR. The candidate shall be 35 years old or younger on the date of conferring of the award.

The IIR is the highest world-wide academic organization in the field of air-conditioning and refrigeration, covering Cryophysics, Cryogenic Engineering, Thermodynamics Systems and Equipment for Refrigeration, Cryobiology and Cryomedicine, Food Science and Engineering, Refrigerated Storage and Transport, Air Conditioning and Heat Pumps.

Dr. Wu received the Willis H. Carrier Award, which is named after the inventor of air conditioner (Dr. Willis H. Carrier). This award is to recognise Dr. Wu's outstanding research achievements on Air Conditioning and Heat Pumps. His relevant studies include (1) alternative heat pump working fluids, (2) advanced heat pump cycles, and (3) optimised heat pump applications.

Dr. Wei Wu's New Book



Dr. Wei Wu (Assistant Professor, SEE) has recently published a book by Springer. The book is titled "Absorption Heating Technologies - Efficient Heating, Heat Recovery and Renewable Energy".

This book offers a comprehensive introduction to novel absorption heating technologies for energy efficiency improvement. A series of advanced systems are discussed for efficient heating, heat recovery and renewable

energy in buildings. Various novel heat pump technologies, including air source heat pumps, ground source heat pumps, and hybrid-energy heat pumps are proposed to enhance applicability, efficiency, and economy of HVAC systems. In addition, recent advances concerning novel working fluids are highlighted. This book is useful for developing energy-efficient technologies for sustainable buildings and low-carbon societies.

Dr. Denis Yu Interviewed by Local Press on 2019 Nobel Prize in Chemistry

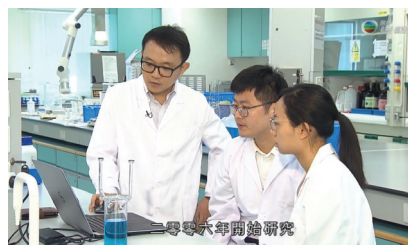
The Nobel Prize in Chemistry (2019) was awarded to John Goodenough, Stanley Whittingham and Akira Yoshino, three scientists working in the field of lithium-ion batteries. It is a well-deserved prize for the field, as the invention and commercialisation of lithium-ion batteries have had a huge impact on our daily lives. They have led to the proliferation of mobile devices and changed the way we communicate, and will also be an important piece of the puzzle for sustainable development in the future.

The research on lithium-ion batteries started more than 40 years ago, and the technology was commercialised in the early 1990s. Over the years, many technologies and materials have been developed to improve the performances of these batteries. Dr. Denis Yu's (Associate Professor, SEE) research group at SEE has also contributed to this effort. Dr. Yu's group is currently developing high-capacity silicon electrodes for lithium-ion batteries, exploring new cathode materials for sodium-ion batteries, developing dual-ion batteries for fast-charging applications and investigating new low-cost metal-metal batteries. Their aim is to increase capacity, improve safety and develop new alternative battery systems for future applications.

Link:

<https://hk.news.appledaily.com/international/20191009/7JJ667QT4NCOWLFZ46FQ2WVRA/>
(Apple Daily, 10 October 2019)

Dr. Yun Hau Ng Interviewed for TV Programme "Innovation GPS"



Dr. Yun Hau Ng (Associate Professor, SEE) was interviewed for a tech-focused TVB programme, "Innovation GPS (創科導航)" on clean hydrogen energy

generation and water treatment using the principle of photocatalysis. Dr. Ng and his team are developing efficient photoactive semiconductors capable of harvesting solar energy and converting it into chemical energy by splitting water molecules into hydrogen and oxygen. This "solar hydrogen" produced from water can be used as an energy carrier in various industrial applications. The developed photocatalysts (photoactive semiconductors) have also demonstrated potential in converting wastewater into clean hydrogen.

The interview was aired on Channel 85 (TVB Finance & Information Channel) during the programme Innovation

GPS, on 9 October 2019 at 9:30 pm. The programme is available online at <http://news.tvb.com/programmes/innovationgps/5d9dc57ae603833839189589>

Dr. Jin Shang and Dr. Lin Zhang's Article in SCMP

Assistant Professors Dr. Jin Shang and Dr. Lin Zhang published an article, "In the fight against climate change, hydrogen could be the answer to Hong Kong's quest for greener fuel", in the South

China Morning Post (SCMP) on 24 September 2019. The article suggests that a hydrogen/natural gas blend could help reduce greenhouse gas emissions if the hydrogen was produced from a low-carbon source. With government support, Hong Kong could be the perfect "lab" to test out the idea and make it work.

Link:

<https://www.scmp.com/comment/letters/article/3029939/fight-against-climate-change-hydrogen-could-be-answer-hong-kongs> (SCMP, 24 September 2019)

Renovation of SEE Office and Laboratory



The year 2019 marked the completion of our renovation of the School office and labs, which brought SEE in its entirety back on the CityU main campus. The relocation of "wet" research labs from Science Park back to CityU's Yeung Kin Man Academic Building, and related construction and set-up, took place in two phases throughout 2018 and 2019. All new labs are now equipped with a 90-minute fire-resistant gas cabinet, a gas detection system and a better designed exhaust ventilation

system, significantly improving lab safety. More importantly, we anticipate these labs will enable deeper engagement of both undergraduate and MSc students in research projects, and enhanced interdisciplinary collaboration among our faculty in research activities, hence triggering positive impacts in many ways.

The renovated School office now offers students a quiet lobby area with seating, as well as faculty offices in close proximity. The renovation took place throughout most of the summer and Semester A in 2019/20. Refurbishment works are not without challenges: how to optimise the use of space through layout design? How to maximise daylight through the use of glass partitioning and yet minimise noise interference? How to save energy without compromising a fully functioning work environment? How to solve unanticipated problems within time and budget constraints? How to achieve a visual identity for the School? How to create a contemporary style using recycled wood as a key material? Please come visit us and tell us what you think of the outcome.

Academic Development and Student Activities

Undergraduate Programme

SEE "Dialogue with Professionals" Series

In Semester A, senior professionals from energy- and environment-related fields were invited by SEE to share their career stories with our undergraduates, and give the younger generation an introduction to the well-established companies in these areas.



Mingling between Ir Mo and students.

In Semester A, Ir C S Leung, Head of System Operations of HK Electric, and Ir Eagle Mo, Managing Director of Telex Environmental and Energy Management Limited, shared their views on the topics "Career Opportunities in Power Industry in Hong Kong" and "Getting Yourself Ready for Our Future Industrial Development" respectively.

During dinner gatherings, the guest speakers and students exchanged views on the job market and professional development. Most importantly, these occasions gave the students the opportunity to gain insights from experienced professionals.

This was the first time SEE had arranged dialogues between professionals and our students. The dinner gatherings were very well received, with over 40 students actively engaging in the discussions.



The talk was held over a causal dinner.



Sharing by Ir Leung.

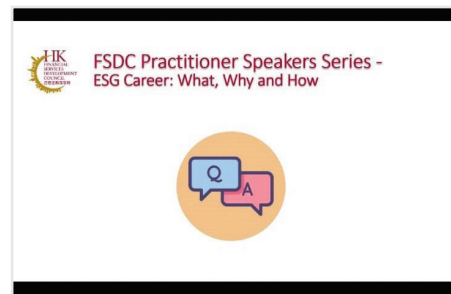
Due to public health concerns, SEE's "Dialogue with Professionals" was launched online in Semester B. As a first attempt, SEE invited Ir Cary Chan to share a talk with our undergraduates on "Latest Development on the Green Building

Agenda". Over 40 students participated in the online talk and exchanged ideas with Ir Chan, who is the Executive Director Hong Kong of Green Building Council Limited and currently an adjunct professor at SEE.



Ir Dr. Cary Chan was the speaker of the first online talk.

The second online "Dialogue with Professionals" was held on 23 March 2020. Mr Rocky Tung, Head of Policy Research for the Financial Services Development Council (FSDC) and Ms Ellie Tang, Head of Sustainability at New World Development Company Limited, shared their views on ESG career with our students.



SEE Industrial Mentorship Programme

SEE strives to provide the best career preparation for our students. The continual support from our industrial partners is crucial to this end. The "Industrial Mentorship Programme" is now stepping into its second year. Senior professionals from several sectors give their precious time to coach our most promising students for the best start to their career. In 2020, selected undergraduates will have the opportunity to learn from the following mentors.



Mr. Rajeev Chib

APAC Head of Client Facilitation & Business Unit Management,
APAC Markets Sales & Relationship Management
Citi Global Markets - Asia Pacific, Citigroup



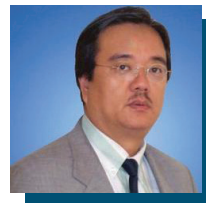
Mr. Jude Chow

Director, ASSOCIATED ENGINEERS, LIMITED



Ir Barry Lee

Chief Executive Officer,
ASSOCIATED ENGINEERS, LIMITED



Ir Louis Lock

Vice President, Institute of Measurement & Control, UK



Ir Eagle Mo

Managing Director, Telex Environmental and Energy Management Limited



Mr. Raymond Ng

Chief Executive Officer, Karin Technology Holdings Limited



Mr. M F Sham

Former Executive Vice President, ECO Environmental Investment Limited, The Hong Kong and China Gas Company Limited

Student Exchange Programme

Student Sharing by Felice Yau (Year-3 Student)

Bachelor of Engineering in Environmental Science & Engineering



Last semester, I had the most memorable experience of my school life. I did a semester-long exchange at the University of Sheffield in Sheffield, UK from September till January. I am glad to have been the first SEE student to go on an exchange programme in Semester A. It was a great choice to go during Semester A. Compared with the second semester, the University has a longer orientation week for overseas students as well as an introduction week for all freshmen before the start of the school year.

I enjoyed the study environment in the host institution. I took three courses from the Civil and Structural Engineering Department and one from the Geography Department. The professors were very kind, and I found the lectures fascinating. The difference in the learning environment is that in the UK it requires more self-discipline and proactiveness as there are fewer model examples. I thus learned to be more engaged and passionate.

As for the most impressive experience, it must have been the times when I went for short trips with my flatmates and friends! We took the opportunity to visit cities such as Liverpool, Cambridge and Cardiff for cultural experiences. We had a great time travelling together, which made our friendships even stronger. I was glad to have people from different countries as my flatmates and friends, as they taught me all sorts of things about their countries and cultures. Therefore, not only did I improve my English during the programme but also learnt words and phrases from five new languages, such as Spanish and Dutch!

Internship

Student Sharing by Jeffrey Chang (Final-year Student)

Bachelor of Engineering in Energy Science & Engineering

I joined the one-year placement programme at the Hong Kong Observatory (HKO) in 2018 and continued as a summer intern in 2019. The 14 months of my life at HKO were an unforgettable experience for me. I worked as a student research intern in both the Division of Weather and Radiation Observation Networks, and the Division of Forecast Development, with my research project targeting the development of a fine-scale spatiotemporal temperature forecasting model in Hong Kong.

The project involved studying a wide range of scientific topics on the meteorological data transmission network and development of numerical weather forecasting techniques for the urban microclimate in Hong Kong. From 3D-printing the sensor instruments to coding algorithms for the data communication network, and even developing the programming scripts for the weather prediction model, I learnt everything in the project from zero to success. The overall process was tremendously fascinating.



Postgraduate Programme

UGC Targeted Taught Postgraduate Programmes Fellowships Scheme 2020/21 for Local Students

A Fellowships Scheme is being introduced by the HKSAR Government to nurture more talent for the strategic development of Hong Kong. Administered under the University Grants Committee (UGC), the Scheme will be offered on a pilot basis to award fellowships to local students admitted

to targeted taught postgraduate programmes in 2020/21. Funding allocation of the Scheme is subject to approval from the Legislative Council.

The Master of Science in Energy and Environment programme in the priority area of “Environment” is one of the targeted programmes listed under the Fellowships Scheme, with nine fellowship awards. Local students admitted to this programme will be invited to submit applications for the Fellowships Scheme.

Outreach Activities

SEE Colloquium Series

Two SEE Colloquia were held in September 2019 and January 2020 respectively. All students and staff from CityU were welcome to attend.

Last September, Ir Don Cheng, General Manager, Commercial & Industrial Marketing & Sales of the Hong Kong and China Gas Co. Ltd., delivered a talk on “Introduction of Innovative Towngas Technology and Application for Buildings”. In this colloquium, the methodology of the combined (CHP) system for generating electricity, steam and hot water was introduced.



Ir Don Cheng delivering a speech.

Sustainability”. The Union’s “Green 7s” campaign has played an important role in embedding environmental awareness into the local sports and event sectors. Mr. McRobbie used the colloquium to describe the Union’s journey towards sustainability.



The sharing was well attended.



Guests from Towngas and SEE faculty members exchanged views through the Colloquium.

On 20 January, Mr. Robbie McRobbie, CEO of the Hong Kong Rugby Union, shared with us his insights on “Sport and



Mr. McRobbie’s talk attracted the attention from many students.

SEE 10th Anniversary

Improving Energy Efficiency Conference by Retro-Commissioning

In celebration of a decade of SEE's dedication to education and research, the "Improving Energy Efficiency Conference by Retro-Commissioning" was organised as a platform for experts and researchers to share insights and new solutions for energy efficiency. Greatly supported by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Building Services Operation and Maintenance Executives Society (BSOMES), Hong Kong Green Building Council Limited, the Hong Kong Institution of Engineers, and others, the conference attracted close to 400 attendees. The official opening remarks to get proceedings underway were delivered online by President Way Kuo.

The conference would not have been a success without the inspiring talks from Ir Cary Chan, JP (Director, Hong Kong Green Building Council), Ir Kenneth Li (Director, WSP (Asia) Limited), Mr. Ross D. Montgomery, (Distinguished Lecturer, ASHRAE), Ir Alfred Sit (Director, EMSD, HKSAR Government), Ir Dr. Wan Kok Wing, Kelvin (Engineer, EMSD, HKSAR Government), Dr. Qingpeng Wei (Associate Professor, School of Architecture, Tsinghua University), Dr. Edwin Tso (Assistant Professor, SEE) and Dr. Wei Wu (Assistant Professor, SEE).



Prof. Chak K Chan, SEE Dean, gave a short opening speech.



The conference was well received.



Dr. Qingpeng Wei (Associate Professor, School of Architecture, Tsinghua University), Keynote Speaker, delivered his talk on "Data-Driven and Intelligence-Aided Retro-Commissioning in Commercial Buildings and HVAC Systems for Energy Efficiency".



Mr. Ross D. Montgomery (Distinguished Lecturer, ASHRAE) shared his insights on "Commissioning in the Built Environment using ASHRAE Standards".



Speakers and participants shared views during the Q&A session.

Student and Alumni Achievements

HKIE Environmental Division Prize for Best Final-Year Environmental Project



Wylie Chung, who graduated with a Bachelor of Engineering in Energy Science and Engineering in 2019, received the Best

Final-Year Environmental Project Award 2019 (1st Runner-up) from the Hong Kong Institution of Engineers (HKIE). The HKIE Environmental Division presented the award to Wylie at the Annual Reception held in January 2020.

Under the supervision from her final-year project supervisor, Prof. Michael Leung, Wylie conducted research on solar photocatalysis technology to improve its applicability to hull antifouling.

PhD student selected for Global Young Scientists Summit 2020

Sun Mingzhe, SEE PhD student, was selected to participate in the Global Young Scientists Summit 2020, held in Singapore by the National Research Foundation from 14 to 17 January. The Summit served as a platform for young researchers worldwide to interact with eminent scientists and technology leaders.

Alumni Story - Step Out and Explore at UC Berkeley

Sharing by Harry Lam

Having graduated from SEE in 2016, I started my career as an environmental engineer at ATAL, where I was involved in the design and operations of three water and wastewater treatment projects. Upon completion of the HKIE's Graduate Scheme "A" Training, I decided to take a step forward, and go beyond my professional background in water engineering. I felt that my calling was to create an impact not only within

the context of my profession, but also in solving the pressing water security and water sustainability issues facing emerging nations these days. Currently, I am pursuing a MS degree in Civil and Environmental Engineering at UC Berkeley and working in a water research group at the Berkeley Lab. Our research is about zapping lead pipes with electricity, making them safer for drinking water uses. I truly enjoy the process of discovering ground-breaking solutions and I look forward to bringing tangible impacts and value to the real world.



CALL FOR **SUPPORT** FROM OUR **ALUMNI!**

SUPPORT

OUR UNDERGRADUATES!

SEE Undergraduate Alumni Awards

Background

We value both academic excellence and comprehensive development of our students. In the past few years, SEE has been promoting seven attributes among our students. We expect our graduates to be technically competent, interdisciplinary, innovative and entrepreneurial. They should be effective communicators and leaders with global vision and a belief in life-long learning. These attributes cannot be nurtured merely in classes. Students are thus encouraged to take part in major competitions, student exchanges, internships or even self-initiated projects to enrich themselves through channels other than textbooks. We believe that you, one of those successful alumni, could also play a role in encouraging your younger fellows to be better equipped for the future!

About the Scholarship

You are cordially invited to be one of the donors of the proposed award known as “SEE Undergraduate Alumni Awards”. The overview of the proposed award is as follows:

Name of Award: SEE Undergraduate Alumni Awards

Number of Awards: Maximum of three per academic year

Award Value: HK\$2,000

Validity: For two years from academic year 2019/20

Eligible Students:

Full-time undergraduate students from the School of Energy and Environment (Bachelor of Engineering in Energy Science and Engineering or Bachelor of Engineering in Environmental Science and Engineering) who

- have achieved a CGPA over 3.0 by the end of the previous academic year
- have demonstrated promising attributes, such as leadership potential and aspiration for advancement, etc.
- have been active in co-curricular and extra-curricular activities, including but not limited to student exchanges, internship programmes, volunteer work, competitions, etc.

All award recipients will have to join the SEE Alumni Association and continue to devote themselves to the development of the School.

Be Our Donors

To be one of our donors, you simply have to complete the enclosed **CityU Alumni Giving Club Donation Form** or **Online Donation Form** (Please visit: <https://www.cityu.edu.hk/laro/apps/agc/AGCSecuredForm.aspx>). Please choose “Others” under “Use of Gifts” on the online form, and indicate “SEE Undergraduate Alumni Awards”. Remember to also indicate the amount you wish to donate, giving the duration, the payment method (i.e., credit card/cheque/bank transfer) and your personal information. To maximise the use of your contribution to CityU, 10% of your gift will be allocated to support the University’s general development, including capital projects. It would be great if we could receive your gift by the end of March 2019 to fund the establishment of the award.

CityU Alumni Association of School of Energy and Environment Limited

(Provisional)

Membership Application Form

General Information

Graduate Year: _____

Name of Most Recent Programme:

- Doctor of Philosophy Bachelor of Engineering in Energy Science and Engineering
 Master of Philosophy Master of Science in Energy and Environment

Personal Particulars

Name: _____ (English) _____ (Chinese as applicable)

Gender: _____ Mobile phone No.: _____

Email address: _____ WeChat ID: _____ (Optional)

Current Status

- Full-time employment Part-time employment Self-employment Employment seeking
 Further Studies Others (please specify): _____

Employment Status (if employed)

Name of employer: _____

Current job title: _____

I have read Personal Data (Privacy) Notice – Use of Personal Data and agree to those terms:

Applicant's signature: _____ Date: _____

Personal Data (Privacy) Notice – Use of Personal Data

People who supply data in their application to the CityU Alumni Association of School of Energy and Environment Limited are advised to note the following points, pursuant to the Personal Data (Privacy) Ordinance:

1. Personal data provided in this application form will, during the entire process, be used solely for this purpose, and in this connection, the data will be handled by the Association's staff or by any committee members of the Association who is directly involved in the administration of this application.
2. After the applications have been processed and the relevant exercise completed:
 - a. the application papers/eForm of successful candidates will become part of the file which the Association open for each member.
3. Under the provisions of the Person Data (Privacy) Ordinance, applicants have rights to request access to, and to request the correction of, their personal data. Applicants wishing to access or make corrections to their data should send email to the see.enquiry@cityu.edu.hk

Declaration

1. I have noted the general points pursuant to the Personal Data (Privacy) Ordinance.
2. I authorize the CityU Alumni Association of School of Energy and Environment Limited or any other office that is directly involved in the administration of this application to use, check and process my data as required for my application.
3. I understand upon successful application, my data will become a part of my member record and may be used for all purposes as prescribed under relevant rules and regulations, as long as I remain member of this Association.

General Enquiry

Phone: +(852)-3442-2410 / 3442-2414

Fax: +(852)-3442-0688

Email: see.enquiry@cityu.edu.hk

Address: G5702, 5/F, Yeung Kin Man Academic Building, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong SAR