

***Our Vision:***

***A leading Civil and Environmental Engineering Department that innovates for a better future.***

***Message from the Head***

*July 2020*

**Dear CEE Colleagues, students, alumni and partners,**

On behalf of my CEE colleagues, I would like to convey my heartiest congratulations to CEE Class of 2020. NUS Commencement is traditionally celebrated in July each year. This year, however, the COVID-19 pandemic has disrupted campus life and events, NUS Commencement 2020 has been postponed to January 2021. We look forward to celebrating this milestone together with you, your family and friends in January 2021. You may wish to contact [commencement@nus.edu.sg](mailto:commencement@nus.edu.sg) for any further clarifications or queries. Thank you for your patience and understanding.

The worldwide pandemic has caused many in the world much uncertainty and altered our perspectives and approaches to daily life in a dramatic way. Students and staff across the NUS campus are seeing cancellation and postponement of public seminars, site visits, commencement ceremonies and the face-to-face meetings. Many of the campus activities were suspended to deal with the pandemic. Given the current situation with Covid-19, majority of our undergraduate modules are 100% e-learning ready for the coming semester. All of us had to adjust to online-education and work-from-home routines.

The NUS has decided to resume campus activities including teaching and research in phases with all precautionary safety measures. Despite of the changes and adjustments, one thing that remains unchanged is our commitment to provide quality education to our students and assist their career development. Following NUS' health and safety guidelines, we will be doing everything we can to ensure our students and staffs remain safe and healthy when the new semester begins in August 2020.

## *Message from CEE Head*

The world is changing and it is more complex than ever. The intricacies of the global systems present amazing opportunities for innovative curricular and cutting-edge research in the field of Civil and Environmental Engineering (CEE). In the effort to be the forerunner of education programmes, we are offering a new digitalization specialization for the B.Eng. programme in the coming semester. We will continue to make improvement to our curriculum to meet the increasing changes and demands of the industry.

In addition, the department is launching a new module to prepare and inspire students towards registration as professional Engineers as well as continual learning and research in their respective discipline. The contents of the module cover research methodology, professional registration, advanced seminars and site visits. To prepare for future professional engineering career, all graduating students were encouraged to take the NUS-NTU FEE (Fundamentals of Engineering Examination) inaugural Examination which will be held on 3 Aug. (Part I) and 6 Aug. (Part II), 2020.

Moreover, CEE is partnering top Universities in China to offer the 3 +1+1 programmes. The undergraduate students will pursue their final year study in NUS and continue to study for a M.Eng. degree or, at a later stage, may choose to pursue for a Ph.D. degree.

We are pleased to announce that QS 2020 has ranked NUS No. 1 in engineering – petroleum. The petroleum engineering programme was initiated by grant from the EDB Petroleum Engineering Professorships Programme in 2014. CEE Department is proud to co-host this programme with Centre of Offshore Research and Engineering. We have a very strong team comprising Professor Arthur Cheng, Professor Lau Hon Chung, and Dr Elita Li Yunyue who worked under the leadership of Professor Y K Chow to achieve this remarkable outcome.

We like to thank our Industry Partners, alumni and colleagues for responding to our call to provide **career opportunities for the Graduating Class of 2020**. A number of successful matches was made possible by your support. So far, 44 companies have offered job openings to our graduates. BCA also has also provided department available job positions to circulate to the graduating students. CEE certainly would not be where it is if not for your support, sharing and camaraderie.

## *Message from CEE Head*

Over the last six months, the Department received [15 new research grants](#) from funding agencies **with a total amount of S\$8.86 million**. The Department has formed six research clusters to tackle future challenges with our consolidated expertise: 1) climate change mitigation, (2) digital and smart technology, (3) smart and liveable cities, (4) Environmental and sustainability, (5) offshore and ocean infrastructures and (6) resilient infrastructures. [Click here for details](#).

Our CEE researchers are responding to fight Covid-19 pandemic:

**Dr Raymond Ong** is involved in the project on “Intelligent Data Science for Contact Tracing and Outbreak Investigation”. This project aims to develop intelligent data science methodologies and applications for contract tracing and outbreak investigation. [Click here for details](#).

**Assoc Prof Karina Gin** was part of the Wastewater surveillance initiated by the National Environmental Agency (NEA) screen wastewater samples for SARS-CoV-2, the causative virus of COVID-19. [Click here for details](#).

**Distinguished Prof and Senior Vice Provost , Phoon Kok Kwang, and his senior research fellow, Dr. Tang Chong**, have been awarded the American Society of Civil Engineers (ASCE) Norman Medal. The Norman Medal is the highest honor granted by the ASCE for a technical paper that makes a definitive contribution to engineering science.

**Prof Ong Say Leong and Prof Leung Chun Fai** has been conferred the title of Emeritus Professor. **Assoc Prof Harry Tan and Assoc Prof Chin Hoong Chor** have been offered to serve as Honorary Fellow for a period of five years. The Department wholeheartedly congratulates them for a successful career at NUS and appreciates their significant academic and professional contributions to help us achieve international reputation.

We wish to congratulate **Dr. Darren Chian Siau Chen** who was promoted to Assoc Prof with tenure with retrospective effect from 1 Jan 2020.

**Dr Simone Fatichi** has joined the Department as Assoc Prof on 2 Mar 2020. He received his Ph.D degree in 2010 jointly awarded by T.U. Braunschweig (Germany) and University of Firenze (Italy) working on “modeling of hydrological cycle and its interaction with vegetation in the framework of climate change”.

## *Message from CEE Head*

**ER. Chen Hao**, an alumnus from the Civil and Environmental Engineering Class of 1974, has made an endowed gift of \$30,000 to the Faculty. It is named “Faculty of Engineering – Chen Hao Bursary” and will support financially-needy undergraduates from the Department of Civil and Environmental Engineering.” **Mr Charlie Tan**, an alumnus and managing director of ADDCEL which is an all-rounded mechanical engineering solution provider, has donated \$10,000 to the department’s structural steel research and teaching fund. Charlie is a great supporter for CEE activities and has made similar donation in the past five years. I thank all the donors for your generosity. If you would like to contribute to NUS, please contact our Dean office colleague Ms Suzanne Koh ([engkohs@nus.edu.sg](mailto:engkohs@nus.edu.sg)) or <https://www.eng.nus.edu.sg/alumni-giving/giving/contact-us/>.

As always, do feel free to send us your feedback, suggestions, as well as information on internship and career opportunities for our students. You can find our latest updates on the department website and events calendar at <http://cee.nus.edu.sg>.

Lastly, we like to extend our appreciation to **Prof Quek Ser Tong** for his dedicated leadership service as Head of Department. He served as Acting Head from 1 Sep 2015 to 30 Sep 2016 and Head of CEE from 1 Oct 2016 – 30 Jun 2020. Prof Quek will continue his academic pursuits in the department and we will continue to engage him to provide excellent service to the department.

As a continuity of leadership in CEE Department, I took over the responsibility as an Acting Head of CEE with effect from 1 July 2020 from Professor Quek Ser Tong. Looking at the scale of pandemic, what else could this message possibly be other than to say that we have experienced the unprecedented times, and will likely continue to face the uncertainty in the months to come?

In closing, I wish all of you well and safe, and the pandemic will be over soon. I look forward to a day when all of us can come back on campus as we work together to provide the best possible experience for our students.

With best wishes,

Richard Liew

Professor and Acting Head,

## *Message from CEE Head*

Department of Civil and Environmental Engineering, NUS

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**Website: [www.eng.nus.edu.sg/cee](http://www.eng.nus.edu.sg/cee)**

**Company Registration No: 200604346E**

## Staff Appointments

**Prof Ong Say Leong** and **Prof Leung Chun Fai** are conferred the title of Emeritus Professor by NUS upon their retirement on 30 Jun 2020.

**Assoc Prof Harry Tan** and **Assoc Prof Chin Hoong Chor** have been offered to serve as Honorary Fellow effective from 1 Jul 2020 for a period of five years and will assist the department in teaching some modules.

**Emeritus Prof Somsak Swaddiwudhipong** will relinquish his role as B.Tech Civil Engineering Course Coordinator in Oct 2020. Assoc Prof Chin Hoong Chor will succeed as B.Tech Civil Engineering Course Coordinator assisted by Dr Justin Yeoh Ker Wei.

**Assoc Prof Pang Sze Dai**, Deputy Head (Academic) and Programme Director for Civil Engineering is appointed as the Curriculum Review Committee Chair and assisted by **Assoc Prof Poh Leong Hien** as Co-Chair with effect from 1 Jul 2020

**Asst Prof Raymond Ong** will succeed Prof Leung Chun Fai as the CEE Graduate Research Programme Manager from 1 Jul 2020 onwards.

**Prof Ng How Yong** has been re-appointed as Director, Sembcorp-NUS Corporate Laboratory, effective from 1 Apr 2020.

Effective from 1 Jul 2020, our Profs have been appointed in the following positions:

**Assoc Prof Goh Siang Huat**, Director, Centre for Protective Technology (CPT)

**Assoc Prof Chan Weng Tat**, Head of Technical Services Support Section to the Engineering Learning and Information Technology (ELITE)

**Assoc Prof Karina Gin** succeeded Prof Richard Liew as Department's Deputy Head, Research on 1 Jul 2020.

**Dr. Lefebvre Olivier Patrick** was appointed as Assistant Dean, Office of

## Message from CEE Head

Student Life in Engineering Faculty.

**Assoc Prof Okky Ahmad Purwana** has been appointed to succeed Prof Leung Chun Fai as Department Safety Committee Chairman & Department Representative to Engineering Faculty Safety Committee. He also has been appointed as Geotechnical Laboratory Supervisor taking over the role from Assoc Prof Harry Tan. He has also appointed as our Department Management Committee (DMC) Guest member for AY2020.

**Dr Liu Yang** has joined the department's Outreach team under Special Projects team effective 1 Aug 2020 to increase our outreach efforts in undergraduate admission.

**Dr. Darren Chian Siau Chen** has been promoted to Assoc Prof with tenure with retrospective effect from 1 Jan 2020.



**Dr Simone Fatichi** has joined the Department of Civil and Environment Engineering as Assoc Prof on 2 Mar 2020. Dr Fatichi received his BSc (cum laude) in Earth and Environmental Engineering at the University of Firenze (Italy) in 2004 and his MSc (cum laude) in Earth and Environmental Protection Engineering at the University of Firenze (Italy) in 2006. In 2010, he obtained an International PhD title (outstanding evaluation) joint between the T.U. Braunschweig (Germany) and University of Firenze (Italy) with the thesis "The modeling of hydrological cycle and its interaction with vegetation in the framework of climate change".

Research interests range from distributed hydrological and ecohydrological modeling, modeling of plant physiological processes and tree-leaf hydraulic, modeling of soil biogeochemistry and nutrient dynamics, weather generators and stochastic hydro-meteorological forcing realizations, downscaling techniques to study climate change impacts and uncertainties, to arrive to more general questions related to global change and its interaction with vegetation functioning, water and soil resources, carbon cycle, and ecosystem services.

## Message from CEE Head

**Mr Foo Chee Kiong** and **Ms Joey Lin Yun** are appointed as department Safe Management Officers (SMOs) to assist in the implementation and coordination of Safe Management Measures at the workplace.

### **Prof Yong Kwet Yew, Sr Vice President**

- Reappointment as Member, Urban Mobility Grand Challenge (UMGC) Technical Evaluation Panel, Ministry of Transport, Feb 2020 to 2022.
- Reappointment as member, MND Scientific Panel May 2020 – April 2022, Ministry of National Development.
- Appointed Technical Panel for the 2<sup>nd</sup> Engineering Innovation Challenge (EIC), National Research Foundation (NRF).

**Prof Tan Kiang Hwee** has re-appointed as Member of Investigation Panel, Professional Engineers Board (PEB), Singapore, for a 2-year term from 1 Feb 2020 to 31 Jan 2022.

**Prof Leung Chun Fai** is appointed the President of International Press-In Association (IPA) with headquarter based in Tokyo in Jun 2020. The Immediate Past President of the Association is Prof Osamu Kusakabe of Tokyo Institute of Technology and the Founder President is Prof Malcolm Bolton of Cambridge University. The IPA is the academic organization to promote Press-in Engineering in close coordination in geotechnical and construction engineering with other technical fields. It has about 700 individual members and over 50 corporate members worldwide.

## Awards

**Distinguished Prof and Senior Vice Provost (Academic Affairs), Prof Phoon Kok Kwang**, and **PhD alumni/senior research fellow, Dr. Tang Chong**, Department of Civil & Environmental Engineering, have been awarded the American Society of Civil Engineers (ASCE) Norman Medal for their paper. The Norman Medal is the highest honor granted by the ASCE for a technical paper that makes a definitive contribution to engineering science. [Click here for details](#)

**PhD student Deepak Kumar** (supervisors **Assoc Prof Poh Leong Hien** &



## Message from CEE Head

**Prof Quek Ser Tong**) has won the 1st place in the student paper competition, organized by the Modeling Inelasticity & Multiscale Behavior Committee of ASCE Engineering Mechanics Institute (EMI). The competition was supposed to be part of the ASCE EMI conference scheduled in May 2020, Columbia University, New York, but later postponed due to COVID-19. For this competition, special arrangement was made to have an online evaluation of paper and presentation.

## Research Grant

Congratulations to our colleagues on winning the following major grants from Jan to Jun 2020.

Principal Investigator, Co Pi	Funding Programme (Source of Funding)	Dept.	Project Title	Project month
Prof Balasubramanian, Rajasekhar	Ministry of Education (MOE)	CEE	Urban Transport and Health Impact Assessment	Jan-20
Prof Ng How Yong	Ministry of Education (MOE)	CEE	Microplastics – Water and Wastewater	Jan-20
Prof Balasubramanian, Rajasekhar	National Research Foundation (NRF)	CEE	Design and Evaluation of Novel Bioretention Systems for Applications in the Tropics	Jan-20
Asst Prof Kong Kian Hau	Ministry of Education (MOE)	CEE	Development of Sustainable Self-Healing Concrete by Use of Recycled Materials	Jan-20
Asst Prof Geng Guoqing	Ministry of Education (MOE)	CEE	Resolving the 3D Porous Structure of C-A-S-H at the Mesoscale	Feb-20
Prof Hu Jiangyong	Ministry of Education (MOE)	CEE	Transformation of Microplastics as Emerging Contaminant in Water	Feb-20
Prof Michael Si; Assoc Prof Qian Xudong & Assoc Prof Low Yin Ming	Agency for Science, Technology and Research (A*STAR)	CEE	Enhancing Offshore System Productivity, Integrity and Survivability in Extreme Environments (ENSURE)	Mar-20
Assoc Prof He Jianzhong	Ministry of Education (MOE)	CEE	Rapid Cleanup of Oil-Contaminated Combing Sorption & Biological Agents	Mar-20
Assoc Prof Gin Yew-Hoong, Karina	Singene Biotech Pte Ltd	CEE	Development of Standard Operating Procedures for the Next-Generation-Sequencing (NGS)-Based Waterborne and Foodborne Pathogens Detection	Apr-20
Asst Prof Elita Li Yunyue	Ministry of Education (MOE)	CEE	Distributed Acoustics Sensing (DAS) Interrogator and Server System	Apr-20
Asst Prof Elita Li Yunyue	ExxonMobil Research and Engineering Company (EMRE)	CEE	Machine Learning for Automatic Image Log Classification	Apr-20
Asst Prof Elita Li Yunyue	ExxonMobil Research and Engineering Company (EMRE)	CEE	SINGAPORE-ASEAN CO <sub>2</sub> SEQUESTRATION OPTION STUDY	Apr-20
Asst Prof Ong Ghim Ping, Raymond	Ministry of Education (MOE)	CEE	Modelling Spread of Infectious Disease in Public Transport Networks and Development of Algorithms to Enable Contact Tracing	Apr-20
Asst Prof Liu Yang	ST Engineering IHQ Pte	CEE	Intelligent Traffic Diffusion Plan	May-20

## Message from CEE Head

	Ltd		Generation, Effective Assessment and Dissemination Strategies	
Prof Meng Qiang	ST Engineering IHQ Pte Ltd	CEE	Smart Traffic State Estimation and Short-term Prediction	May-20

## New Research Clusters

Six research clusters have been identified to tackle future national, regional and global challenges:

Research Clusters	Research Focus
<p><b>Climate Change Mitigation</b>  <b>Director</b>  Distinguished Prof Philip Li-Fan Liu  <b>Co-Director</b>  Prof Rajasekhar Balasubramanian</p>	<p><b>1. Effects of Climate Change on Singapore Coastal Water</b>  Rising sea level; Extreme Weather; Storm Surge; Water Quality; Coastal Flooding  <b>2. Effects of Climate Change on Inland Singapore</b>  Urban Heat Island effect; Thermal Comfort of Built Environment; Intense Rainfall; In-land Flooding; Air Quality; Water Supplies and Quality  <b>3. Mitigation Strategies for Resilient Coastal City</b>  Engineering Solutions using Seawalls, Dykes and Polders; Natural-based Solutions; Multi-objective Solutions; Durability of Civil Engineering Materials in Marine and Tropical Environment; Maintenance and Repairs of Coastal Infrastructures</p>
<p><b>Digital and Smart Technology</b>  <b>Director</b>  Prof Chua Kim Huat David  <b>Co-Director</b>  Assoc Prof Pang Sze Dai</p>	<p><b>1. Enhance productivity with digital technology</b>  BIM, DfMA, computational modelling, advanced design software &amp; modeling; Use of IoT, AI, ML, DL, and robotics in construction; Use of Digital technologies such as 3D Scanning, AR, VR to enhance design and construction process; Use of AI and ML to enhance work productivity.  <b>2. Smart materials and AI technologies</b>  Smart structural health monitoring, sensing and prediction; Sensing environmental hazards &amp; trends</p>
<p><b>Smart and Liveable Cities</b>    <b>Director</b>  Prof Meng Qiang  <b>Co-Director</b>  Assoc Prof Goh Siang Huat</p>	<p><b>1. Ecological and social transition of economy</b>  Sustainable engineering; Circular economy; Intelligent infrastructures for aging population  <b>2. Create space of value</b>  Increase land intensity; Livable land, underground, sea &amp; air space; Convertible and multipurpose infrastructures  <b>3. Future smart urban mobility</b>  Autonomous vehicles; Car-free and car-lite towns; Urban mobility for aging Singapore; Future transit-oriented development planning, Smart transport infrastructure maintenance</p>
<p><b>Environmental Protection and Sustainability</b>    <b>Director</b>  Prof Hu Jiangyong</p>	<p><b>1. Green Energy</b>  Renewable energy development; Efficient energy use in air, water and waste pollution control  <b>2. Water and Environmental Science and Technology</b>  Toxic emissions reduction; Efficient pollution treatment; Food safety and sustainable food supply; Environmental sustainability; Circular Economy  <b>3. Environmental Biotechnology</b>  Advanced techniques development for bioaerosol and biotechnology</p>

## Message from CEE Head

Research Clusters	Research Focus
<b>Offshore and Ocean Infrastructures</b>  <b>Director</b> Prof Chow Yean Chow <b>Co-Director</b> Associate Prof (Practice) Okky Ahmad Purwana	<b>1. Offshore and ocean infrastructures</b> Shallow and deep water technologies for explorations of natural resources and decommissioning <b>2. Renewable energy infrastructures</b> Structural and foundation systems for wind and solar energy generators <b>3. Predictability of offshore and subsea structures</b> Use of artificial intelligence and smart sensors for predicting structural responses in offshore environments
<b>Resilient Infrastructures</b>  <b>Director</b> Associate Prof Qian Xudong <b>Co-Director</b> Associate Prof Poh Leong Hien	<b>1.Design of multi-hazard robustness</b> <b>2.Risk of systemic failure of infrastructure and lifeline systems network.</b> <b>3.Resilient infrastructures to mitigate climate change &amp; seawater rise.</b> <b>4.Sensor-interfaced digital twin solution for infrastructure resilience</b> <b>5.Mitigation measures in design of buildings against progressive collapse</b>

More details can be found at CEE website at:

<https://www.eng.nus.edu.sg/cee/research/research-clusters/>

## Department Activities

### **CVE Poster day 2020 and ESE FYP Symposium 2020**

Both physical events were cancelled due to Covid-19. Civil Engineering had an E-Poster presentation after the examinations in early May 2020.

### **NUS e-Open House 2020 (26 Feb to 5 Mar)**

Engineering Faculty was allocated to be featured on 26 Feb 2020 and department set up Hotlines, Telegrams channels, new outreach webpages and outreach videos to provide information for students applying for undergraduate admission. On 26 Feb 2020, both CVE and EVE teams comprising faculty, students and administrative staff managed the e-open house enquiries via various platforms (Telegram, email and calls). The department publicized the e-open house event to industry partners, alumni, staff and students via emails and social media such as Instagram, YouTube and Facebook advertisements.

**CEE e-Open House 2020** - The Engineering Faculty organized a webinar session for all the engineering programmes to allow departments to have better interaction with our potential students before the undergraduate admission

## ***Message from CEE Head***

applications closes on 19 Mar 2020. The department held two webinars for each programme in CEE conference room with live chats, videos and presentation slides for FAQ to share essential information with the support of the following colleagues and students.

### **e-Open House Webinar (16 May 2020)**

As the Engineering open house was not possible this year, department organized Zoom sessions inviting students who have been offered a place in CVE & EVE to meet our faculty, current students and HoD to address their concerns. CVE Webinar Session attracted 71 participants while EVE had 35 participants. The number of questions recorded via poll everywhere were 36 (CVE) and 29 (EVE) respectively.

### **e-Welcome Session for New Students, 20 July 2020**

The new undergraduate students will be invited to attend a zoom welcome session organized by Department including talks by other university and faculty units on 20 Jul 2020.

### **Kent Ridge Alumni Family Day, 15 Aug 2020**

This year's Kent Ridge Alumni Family Day will be held online, on Facebook Live and a series of Zoom Meetings, from 10 am to 6 pm on 15 Aug (Sat). The details will be released later.

## **Student & Alumni Activities and Events**

### **Operation Orion**

Civil Engineering Club's 26 members of the Operation Orion team visited Vietnam from 9 - 27 Dec 2019. The places covered include Ho Chi Minh and Chau Kè which is a rural district (huyện) of Trà Vinh Province in the Mekong Delta region of Vietnam. The activities during the trip included building a bridge and two mini-houses for the villages. Our students had an enriching experience in teaching children in the school there.



### **Environmental Science and Engineering Student's Club (ESESC) - CNY Celebration 2020**

Students from ESESC celebrated Chinese New Year with "Lo Hei" tossing together with their club advisor Dr Olivier on 5 Feb 2020. The committee for Project OceanUS ran a fundraising event on 14 February 2020 in conjunction with Valentine's day. Students sold flower bouquets to raise fund for their Project OceanUS trip which was planned for 12 May to 20 Jun 2020 to Hanoi, Vietnam. Due to the COVID- 19, the trip has been called off and the fund raised has been handed over to the 2021 Project OceanUS.



### **Internship AY2019 S2 Industrial Attachment (IA)(Jan – May 2020)**

Total of 119 students are enrolled for internship for 20 weeks from Jan to May 2020. All the students have been briefed by Dr Chew SH on "How to maximize IA experience" from Dec 2019 to Feb 2020. For first time, 67 IA students attended the BCA's – New Initiative – Built-Environment Formation Programme from 6-9 Jan 2020. Due to Covid 19 circuit breaker 1 (7 Apr- 4 May), IA was cut short to 16 weeks instead of 20 weeks. Those on 24 weeks IA will cut short to 18 weeks. Department worked with the companies and students to help students to fulfill the minimum 75% internship duration requirement for IA.

## Message from CEE Head

To obtain feedback from employer's opinions on the internship as part of the Engineering Accreditation Board (EAB) monitoring process, through the help of our teaching faculty (CEE IA mentors), we have sent out a new survey to IA companies on 29 May 2020.

### Internship AY2019 Vacation Internship (VIP) (May – Jul 2020)

Due to Covid-19, a number of the VIP offers were rescinded, and students could only start VIP on 2 Jun when the Circuit Breaker was lifted, and they need to fulfill at least 75% of the normal duration of 12 weeks. Hence, a student's VIP can be 9 weeks in duration for full credit. The VIP needs to end by 7 Aug to minimise disruption to the next academic semester.

## Site Visits

We appreciate our industrial partners' effort to offer site visits to CEE students to enrich their learning experience.

Company/Site	Date	Accompanying Faculty/Staff
CE3165 – Site visit to NatSteel Steel Mill	6 Jan 2020	CEE Research Fellow Dr Abhishek Verm
CE5112 - Design Project Field Trip to 4 site's: Site 1: Hanson Precast (S) Pte Ltd, 42 Pioneer Sector 2 Site 2: Kaki Bukit Ave 4 – AAS: Bartley Road East Viaduct Site 3: Eco Bridge @ Bidadari Estate - Project Site Site 4: Braddel & McRitchie Viaducts	16 Jan 2020	Dr Kong Kian Hau, Er Tan See Chee Adjunct Assoc Prof and Assoc Prof Goh Siang Huat)
ESE2102 Engineering Principle and Practice to Singapore Botanic Gardens	4 & 5 Feb 2020	Dr Lefebvre Olivier & Dr Alex Lee King Yin



16 students visited the Steel Mill on 6 Jan 2020 as part of the study on structural steel design led by CEE Research Fellow Dr Abhishek Verm



48 EVE students went for a field trip to Singapore Botanic Gardens as part of the study on ESE2102 (Principles & Practice in Infrastructure and Environment) on 4 & 5 Feb 2020 accompanied by Dr Lefebvre Olivier & Dr Alex Lee King Yin.

### Seminars/Webinars

The department hosted 8 public seminars/webinars in the first half of 2020 in various research interest areas.

Conferences and Seminars	Speaker/s	Date
International Symposium on Advances in Steel & Composite Structures	<b>10 Speakers</b> are:- 1 Prof Richard Liew - NUS 2 Prof Chan Siu-Lai - Hong Kong Uni 3 Patrick Beshara - Lendlease Australia 4 Prof Chiew Sing Ping - SIT 5 Prof Pang Sze Dai - NUS 6 Mr Zhu Zhongyi - Beijing Architectural Design & Research Institute 7 Mr Jason Tan - ARUP 8 Mr Lai Binglin - NUS 9 Mr Koji Oki - JFE Steel Corporation 10 Mr Seunghwan Lee - Sen Engineering Group Hosted by Prof Richard Liew	10 Jan 2020
Teaching Construction Automation and Robotics at the University of Maryland: Recent Experiences and Future Developments	<b>Prof Miroslaw Jan Skibniewski</b> Construction Engineering and Project Management, Department of Civil and Environmental Engineering, University of Maryland, College Park, USA Hosted by Prof David Chua Kim Huat	13 Jan 2020
Recent Developments in Construction Automation and Robotics Applications in the USA - WOH HUP Distinguished Lecture	<b>Prof Miroslaw Jan Skibniewski</b> Construction Engineering and Project Management, Department of Civil and Environmental Engineering, University of Maryland, College Park, USA Hosted by Prof Quek Ser Tong	14 Jan 2020
45 years of NATION BUILDING --- SMART construction	<b>Er Lim Kim Cheong</b> Partner, Lim Kim Cheong Consultants	15 Jan 2020
Growing structural proteins into advanced materials for food security.	<b>Dr Benedetto Marelli</b> Department of Civil and Environmental Engineering Massachusetts Institute of Technology Hosted by Dr Kevin Kuang	17 Jan 2020
Workshop on Construction Robotics Primer	<b>Prof Miroslaw Jan Skibniewski</b> Construction Engineering and Project Management, Department of Civil and Environmental Engineering, University of Maryland, College Park, USA Hosted by Prof David Chua Kim Huat	20 Jan 2020
Evaluating Our Buried Infrastructure with Dynamic Asset Monitoring, Sensing and Data Integration - WOH HUP Distinguished Lecture	<b>Prof Ian Jefferson</b> Geotechnical Engineering, School of Engineering, University of Birmingham, Birmingham, UK Hosted by Prof Quek Ser Tong	30 Jan 2020
Zoom Session on Improving Resume and tips for Interview for internship and Jobs	CEE CFG advisor <b>Ms Sherone Hephzibah Sylvester</b> and CFG has invited two Surbana Jurong HR staff: Mr Joseph Chong, Mr Zen Sim Hosted by Prof Bala	28 May 2020
Webinar on CHALLENGES for the Construction Industry TODAY	<b>Er Lim Kim Cheong</b> , Partner, Lim Kim Cheong Consultants Hosted by Dr Paul Ong	1 Jun 2020
Webinar on Practical Geotechnical Engineering	<b>Er Lim Kia Wee</b> , Managing director of both <b>TERS Engineering Services Pte Ltd and Ters Consulting Pte Ltd</b>	17 Jul 2020

## Message from CEE Head

	To be hosted by Prof Lee Fook Hou	
Distinguished WOH HUP Distinguished Lecture (Title tbc)	<b>Honorary Fellow Dr Tam Chat Tim, Dr Du Hongjian and Dr Geng Guoqing</b> Department Civil and Environmental Engineering National University of Singapore To be hosted by Prof Quek Ser Tong	5 Aug 2020
Distinguished WOH HUP Distinguished Lecture (Title tbc)	<b>Associate Prof Harry Tan Siew Ann</b> Department Civil and Environmental Engineering National University of Singapore To be hosted by Prof Quek Ser Tong	tbc

## Industrial Sharing

**Environmental, Health and Safety - 25 Jun 2020**, hosted by Prof Hu JY was attended by over 80 Environmental Engineering students, alumni and faculty.

Speakers	
<b>Mr Jasper Ng</b> Asst Manager (Occupational Safety & Health), EHS Dept, OMRON Asia Pacific PL <i>NUS Alumni – EVE, 2009, MSc (Safety, Health and Environment Technology), 2014</i>	<b>Dr Goh Hui Weng</b> Senior Lecturer, River Engineering & Urban Drainage Research Centre, USM Engineering Campus, Universiti Sains Malaysia, <i>NUS Alumni – MSc Env Eng, 2010</i>
<b>Mr Steve Lin</b> APAC Regional Environmental Engineer, Amazon Web Services, <i>NUS Alumni – EVE, 2012</i>	<b>Mr Ong Lye Huat</b> Regional EHS Manager, APAC at Microsoft
<b>Mr Marvin YS LEE</b> Regional Director, EHS-APAC	

**Environmental Science and Engineering Alumni sharing session - Sustainable Investments, Financing and Business** will be held on 15 Jul 2020, to be hosted by Prof Hu Jiangyong for CEE students.

## University Visits

**The Hong Kong University of Science and Technology, Hong Kong (20 Jan 2020)**

30 students were hosted by Dr Justin Yeoh to visit the Structural laboratory.

**Hasanuddin University, Makassar, Indonesia (23 Jan 2020)**

33 undergraduate students together with their 2 teaching staff visited the Hydraulic and Centrifuge laboratories, hosted by Assoc Prof Okky Ahmad Purwana and Dr Paul Ong.



## Information sources

Do follow us on social media: website, Facebook, Instagram and YouTube to get updates on events and news about our department using the following QR codes.

