

Appendix

The HKIE Honorary Fellow 2021 – Ir Prof C F Lee

An Honorary Fellow may be selected each year to recognise his remarkable services to the Institution, to engineering in general, or a field of science. This year, Ir Prof C F Lee was awarded the honour.

Ir Prof C F Lee graduated from The University of Hong Kong (HKU) with a Bachelor's degree in Civil Engineering (First-class Honours) in 1968, followed by a Master's degree in Engineering in 1970. He received his PhD in Geotechnical Engineering in 1972 from the University of Western Ontario, Canada. He taught at the University of Western Ontario and the University of Toronto before joining Ontario Hydro, a provincial electrical utility and crown corporation in 1975. Later, Ir Prof LEE rose progressively to head of the engineering department and was responsible for the design and construction of various hydroelectric and nuclear power projects.

Since the early 1980s, Ir Prof Lee has been invited to serve as a specialist consultant to a variety of hydropower, nuclear power and infrastructure projects in China, including the Three Gorges, Ertan, Lijiaxia, Xiaolangdi, Xiaowan, Manwan, Jinping I & II, Baihetan, Wudongde, Xiluodu, Xiangjiaba, Longtan, Pubugou hydropower projects, as well as the Daya Bay, Lingao, Qinshan, Hongyanhe nuclear power projects.

Ir Prof Lee returned to Hong Kong in 1994 and served as the Chair Professor of Geotechnical Engineering and Pro-Vice-Chancellor of his alma mater HKU. During his tenure, he led a research team to study landslide hazard mitigation using soil nails and served as a member of the Slope Safety Technical Review Board of the Geotechnical Engineering Office. He was also actively involved in the prevention of landslides and debris flows in China by working closely with his counterparts there.

Ir Prof Lee has published over 300 technical papers, along with a number of monographs and books. He is an Academician of the Chinese Academy of Engineering, a Fellow Member of the Canadian Academy of Engineering and the Engineering Institute of Canada, a Fellow Member and Past President of the Hong Kong Academy of Engineering Science, a Fellow Member of the Institution and past Chairman of the Distinguished Lectures Committee of the Institution. Ir Prof Lee also served as a Fulbright Distinguished Scholar and a Cross Canada Lecturer. He is a Justice of the Peace and a recipient of the Gold Bauhinia Star and the Silver Bauhinia Star.

The HKIE Gold Medal 2021 Awardee - Ir Professor Norman Ko

Each year the Gold Medal was awarded to an outstanding member to recognise his significant specific contributions and achievement to his respective fields of engineering.

Ir Prof Norman Ko is a widely acclaimed educator, scientific researcher, engineer, photographer, inventor and sculptor.

Regarding Ir Prof Ko's engineering achievements. Ir Prof Ko was a Chair Professor in the Department of Mechanical Engineering, The University of Hong Kong (HKU), until his retirement in 2000. He currently holds the title of Emeritus Professor at HKU and he is an Honorary Professor in the Department of Mechanical Engineering.

Ir Prof Ko graduated from the Department of Mechanical Engineering of HKU in 1963. In 1969, he obtained his Doctor of Philosophy from the University of Southampton, England, and earned his Doctor of Science from HKU and the University of Southampton in 1995 and 2004 respectively.

Since 2003, he has been an Honorary Fellow of The Open University of Hong Kong, and from 2007, an Honorary Fellow of HKU. In 2013, he was awarded a University Fellow by The Hong Kong Polytechnic University (PolyU).

Ir Prof Ko has been a Chartered Engineer, a Fellow Member of The Hong Kong Institution of Engineers, and a founding member and Fellow Member of the Hong Kong Institute of Acoustics. He has been an Honorary Fellow of the Hong Kong Institute of Acoustics since 2003. He was a Fellow Member of the Institution of Mechanical Engineers and of the Institute of Acoustics in the United Kingdom, and a Member of the American Society of Mechanical Engineers.

He was a member of the Editorial Advisory Board on the International Journal of Experimental Heat Transfer, Thermodynamics, and Fluid Mechanics. He served as Chairperson and was a member of several international committees and scientific committees of conferences. He also organised international conferences in Hong Kong. Of particular note is that he organised the first international conference on the interaction of science and art in Hong Kong, with further conferences held in Berlin and Zurich.

Ir Prof Ko has also served on various government and other committees in Hong Kong addressing concerns on the environment, safety and access for the disabled. In addition, he was the Chairman and Supervisor of the Council of Chun Tok School.

He has published extensively in international journals and conference proceedings, including more than 240 research papers on fluid dynamics and sound. He was a pioneer in the control of noise pollution in Hong Kong.

Regarding Ir Prof Ko's artistic achievements. Ir Prof Ko took up underwater photography in 1964, diving in different oceans of the world and taking photographs of marine lifeforms in tropical seas. In 1970, he won the gold and silver medals in underwater photography from the Underwater Federation of Hong Kong. He has given talks and appeared on television speaking on underwater photography and on conservation of the oceans. In the 1980s, he proposed marine parks in Hong Kong for

the conservation of marine heritage.

He has three patents in the United States of America and the United Kingdom for an underwater camera he invented.

In 1979, Ir Prof Ko turned to sculpture and won the Urban Council Fine Arts Award for Sculpture in 1983. In 1987, he took up painting and obtained a French Government Fellowship. He received a grant in 1991 from the Consortium for Pacific Arts and Culture, Honolulu, Hawaii.

Since 1991, Ir Prof Ko has been a Fellow of the Royal Society of Arts, the United Kingdom. He was a founder member and served as President of the Hong Kong Sculptors Association. He was also the Honorary Museum's Adviser (Promotion of Hong Kong Art Panel) to the Hong Kong Museum of Art.

From 1988 to 1992, he was an Honorary Lecturer in the Department of Fine Arts at HKU, and from 1989 to 1991, he was also a Tutor in the Department of Extra Mural Studies at HKU.

In 2008, Ir Prof Ko was invited to be a member of the Chinese Artists Association (中國美術家協會).

In 2010, he was the Chairman of the Advisory Committee, the Academy of Visual Arts at Hong Kong Baptist University. In 2011, he was Artist-in-Residence at the PolyU.

On different occasions, Ir Prof Ko served as judge and jury for the awards of institutes such as The Hong Kong Institute of Architects and The Hong Kong Institute of Landscape Architects.

He has delivered 27 lectures on sculptural art and photography. He has also held 25 solo exhibitions in sculpture, painting, underwater photography, photography and installation art, and has participated in more than 70 joint exhibitions. Many of his larger sculptures are on display in public places in Hong Kong while his smaller works have been collected by private enthusiasts around the world.

The President's Award 2021 Awardee - Ir David C H Chang

The President's Award was set up by the Institution in recognition of the dedicated and valuable service of a member of any class who has served the Institution with distinction. This year, Ir David C H Chang received the honour.

Ir David Chang became a Member and a Fellow Member of the Institution in 1981 and 2013 respectively. He was a Founder Member of the Engineering Forum established in April 2011 which provides a diverse platform to promote engineering and for engineers to develop an interest in community affairs for the benefit of the

general public.

Elected as a Council Member of the Institution in 2010, Ir Chang received the highest number of votes as an Elected Ordinary Member. In 2014, he became the Deputy Chairman of the Journal Editorial Committee (JEC) that monitors the development of the monthly Journal of the Institution and he was later appointed Chairman of the JEC in 2017. Under his leadership, the Journal has undergone an extensive face lift and now offers a fresh and professional new look to the readers. With the aim of enriching the Journal's content to appeal more broadly to the diverse interests of the HKIE Members, Ir Chang has invited Government bureaux/departments, HKIE Divisions/Disciplines and related professional organisations to submit articles. To keep abreast of the digitalisation trend and to be kind to the environment, he initiated the digital transformation of the Journal. With the support of the JEC members, a solely online version of the Journal will be launched in August 2021.

During his four years as Council Member, Ir Chang contributed his talents to the Institution by joining numerous committees. He participated as a member of the Planning Committee, the Finance & Investment Committee, the Staff Resources Committee, the Alternative Dispute Resolution Committee, the Management Committee and the Public Relations Committee. By leveraging his thorough understanding of the Institution's organisation and operations, and with his professional knowledge and talents, he has contributed to the Institution in various aspects.

In addition to the above, Ir Chang served as a Member of the Engineers Registration Board from 2012 to 2020, and as an Ex-officio Member of the Administration Board and the HKIE Transactions Committee since 2017. He has also been a Professional Assessment Assessor since 1997.

Following the 5.12 earthquake in Sichuan in 2008, Ir Chang offered himself for volunteer services in design checking and construction supervision of many school buildings in Sichuan between 2009 and 2010 under a joint project between the HKIE Geotechnical Division and Sowers Action. Besides, he also volunteered in assessing the condition of school buildings in Sichuan in May 2013 after the earthquake in April of the same year.

Since retiring from the Government, Ir Chang has been a Director and Training Manager cum Engineering Supervisor with SMEC Asia Limited, responsible for engineering development and overseeing the HKIE Scheme "A" Graduate Training to help nurture and inspire young engineering talent on their career paths.

Young Engineer of the Year Award 2021 Awardee - Ir Ivy Y L

The Young Engineer of the Year Award aims to recognise outstanding young engineers of outstanding achievements and who have made significant contributions to the profession, the community of Hong Kong and the HKIE.

Ir Ivy Leung graduated from Imperial College London with a Master's Degree in Mechanical Engineering in 2010. She started her career at ATAL Engineering Ltd and obtained her professional qualification while working at AECOM Asia Co Ltd. She is now an electrical and mechanical engineer with the Electrical and Mechanical Services Department (EMSD) of the HKSAR Government, and currently under secondment to the Drainage Services Department (DSD) responsible for public works projects.

With over 10 years of working experience with contractors, in consultancy and in government, Ir Leung is all rounded in managing engineering projects from planning and design, construction and installation, to operation and maintenance. She strives to apply sustainable and innovative ideas and designs to various large scale environmental engineering projects, including the Stonecutters Island Sewage Treatment Works, Integrated Waste Management Facilities and the Tai Po Water Treatment Works to enhance operational efficiency and achieve sustainability. Her contribution to these projects has been well recognised through prestigious company awards.

Ir Leung has been proactive in serving the HKIE for years. She was selected as one of the ten members under the President's Protégés Scheme 2011/2012 and won Third Prize in the Trainee of the Year Award in 2012. As the Chairlady of the President's Protégés Club (PPC) in 2015, she led teams of young engineers in organising engineering exploration programmes and career sharing with young talents in STEM development. She also served as one of the members of the panel of judges for the Robocon Hong Kong Contests to support young talent in robotics innovation. In 2016, she was nominated to be the HKIE Executive Observer as a young engineer representative to reflect the views of the young members to the management regarding the continuous development of the Institution. She was also the Vice-Chairperson of the Activity Sub-committee of the Institution of Mechanical Engineers (Hong Kong Branch).

Ir Leung is devoted to contributing to the community and impressively serving the poverty both locally and globally. Her passion has led her to initiate overseas volunteering delegations in the President's Protégés Club and she has travelled to Cambodia, Nepal, Armenia and Sri Lanka for various construction projects that aimed to improve the quality of life and hygiene conditions of needy families. Her mission to bring love and care to the global community through engineering has been well accomplished.

The Certificate of Merit of Young Engineer of the Year Award 2021 went to Ir Ng Ka Chun.