

## WOH HUP DISTINGUISHED LECTURES

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# Linking Science and Technology in Concrete Research

Wed, 5 Aug 2020  
16:00 to 17:30 SGT



**First Speaker**  
WOH HUP Distinguished Speaker  
Honorary Fellow Dr Tam Chat Tim



**Second Speaker**  
Dr Du Hongjian



**Third Speaker**  
Dr Geng Guoqing

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As the most widely used man-made material, concrete has been improved by technology and science to meet the society development needs such as safety, durability, sustainability and productivity. In this webinar, the speakers will introduce the latest development of concrete research in NUS. Professor Tam will share his work on enhancing standard test approach to better reflect applications requirements. Dr. Du will share the progress on digital concrete fabrication by 3D printing. Dr. Geng will introduce some important yet unaddressed scientific questions in cement and concrete research. The state-of-the-art facilities available for cement chemistry and concrete technology research will be introduced as well.

Host by: Professor Quek Ser Tong

PDU's pending

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## Speakers:

Prof. Tam Chat Tim (30 mins)

Dr. Du Hongjian (20 mins)

Dr. Geng Guoqing (20 mins)

## Speakers Biography:

	<p><b>Prof. Tam Chat Tim</b> studied for his BE (Hons) and ME in Australia and his PhD in Canada. After working for three years with the Hydro-Electric Commission in Hobart and a consultancy firm in Kuala Lumpur, he joined the Department of Civil Engineering of the University of Malaya in 1963. Between 1968 and 1972, he was on leave from the UM to obtain his PhD in Materials Science on the topic of chemical admixtures in concrete. After returning, he was Head of the Department before leaving in 1979 to join the then University of Singapore, now National University of Singapore, and held the position of Vice-Dean before his retirement in 1996. Currently, he is a Honorary Fellow to continue with research on concrete materials and construction.</p>
	<p><b>Dr. Du Hongjian</b> joined the Department of Civil and Environmental Engineering in 2019. His research interest covers durability of concrete materials, reuse of solid waste in construction, low-carbon cementitious binder development, etc. More recently, Dr. Du has been working in 3D concrete printing, an emerging technology that may reshape the construction in future. With his students, Dr. Du mainly focuses on the printable materials design, performance characterization and novel applications. He serves in the International Advisory Committee and Organizing Committee for the International Conference of 3D Construction Printing (Shanghai, 2020 and Melbourne, 2018), one of the most prestigious conferences in the field of construction 3D printing.</p>
	<p><b>Dr. Geng Guoqing</b> joined CEE of NUS in 2019. His research focuses on the sustainability- and performance-based design of modern construction materials, as well as predicting and enhancing their long-term durability. Dr. Geng has developed a set of microscale probes to study the fundamental mechanism of cement hydration and the physio-chemical processes of concrete degradation, such as steel corrosion and alkali silica reaction. In NUS, Dr. Geng is developing his expertise in modelling the durability of concrete in marine condition, as well as utilizing municipal waste materials such as sewage sludge ash and waste incineration ash in modern construction material.</p>