

ABOUT THE TRAINER



Dr. Ng, How Yong

Dr. Ng How Yong is a Provost's Chair Professor in the Department of Civil and Environmental Engineering. He is also the Director of NUS Environmental Research Institute and the Director of the Sembcorp-NUS Corporate Laboratory.

He has over 20 years of experience in biological wastewater treatment and membrane processes for water reuse and seawater desalination, and has served as a consultant on municipal wastewater treatment and reuse, industrial effluent treatment as well as seawater desalination in Singapore, China, Japan and the USA. Prof Ng is also a fellow of the Academy of Engineering Singapore, a fellow of the International Water Association (IWA), Vice-chairman of the Management Committee of the IWA Specialist Group on Membrane Technology and President of the Environmental Engineering Society of Singapore.

Dr. Ng's core research interest is in sustainable water management, focusing on biological treatment technologies, membrane processes and microbial electrochemical sensor for water reuse and resource recovery. He has contributed to more than 350 publications in refereed international journals and conference papers. He invented the *I2BioS* – an integrated intelligent bio-sensor that provides real-time water toxicity and quality monitoring, which is currently being commercialised through EnvironSens Pte Ltd, a NUS spinoff company. He also serves as an Advisor to WaterROAM Pte Ltd – a NUS startup and a social enterprise that provides durable and affordable water filters designed for humanitarian use.

Dr. Ng is the recipient of the 2016 National University of Singapore Engineering Researcher Award, the 2014 IWA Asia Pacific Regional Project Innovation Awards, the 2009 National University of Singapore Young Researcher Award, the 2008 Singapore Youth Award, the 2007 Singapore Young Scientist Award and the 2006 IWA Young Professionals Award.

Dr Ng holds a Bachelor of Civil Engineering (1st Class Honours) from the National University of Singapore, a Master of Engineering in Environmental Engineering from the National University of Singapore and a Ph.D. in Environmental Engineering from the University of California Berkeley, USA.