

MAKING IMPACT ENGINEERING PRACTICABLE

Speaker

Prof. Nelson Lam

University of Melbourne



Abstract

The fundamentals of Impact actions are currently not well understood by most practising professional civil engineers. Much of what can be found in the literature is typically filled with mathematical rigour. Thus, practitioners are often not able to apply what has been read in solving an engineering problem at work. Relying on the use of certain advanced computer software (LS DYNA, for example) to deal with the analysis of impact actions is now the norm. This black box syndrome is not satisfactory. This presentation takes the audience back to the basics. As shown in the presentation, the effects of impact actions that are commonly found in civil engineering practice may be solved by the use of algebraic expressions the basis of which can be understood easily. A rundown of research projects in this field of study undertaken by the speaker will also be given.

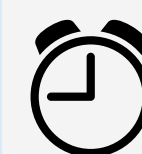
Biography

Professor Nelson Lam is full professor and Head of Structures & Buildings at the University of Melbourne where he spent the past 36 years engaging in research into impact and earthquake actions. He co-authored textbook titled: Collision Actions on Structures by CRC Press of Taylor & Francis. His research findings on bridges are published in the ASCE Journal of Bridge Engineering and ASCE Journal of Structural Engineering. His early career was with the bridges section at Scott Wilson International in the 1980's prior to him commencing his career at University of Melbourne.

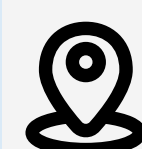


14 July 2026

Tuesday



2:00pm - 3:00pm



**Room 3574 (Lift 27/28),
Civil Engineering
Conference Room, HKUST**

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