



**2-DAY SYMPOSIUM
ON
“EARTHQUAKE RESISTANT DESIGN OF RC
BUILDINGS BASED ON THE EC8 MALAYSIA NA :
FROM LOADING CHARACTERISATION
TO RC DETAILING”**

SPEAKERS:

Prof. Nelson Lam (University of Melbourne, Australia)
Dr. Hing-Ho Tsang (Swinburne University of Technology, Melbourne, Australia)
Dr. Daniel Looi Ting Wee (Swinburne University of Technology, Sarawak, Malaysia)
Ir. Lim Ek Peng (Perunding Hashim & NEH Sdn Bhd)
Ir. Dr. Ng Soon Ching (Sepakat Setia Perunding Sdn Bhd)

Date : 18TH – 19TH DECEMBER 2018 (Tuesday & Wednesday)
Venue : Crystal Crown Hall, Level 1
CRYSTAL CROWN HOTEL, Petaling Jaya, Selangor
Time : 9.00 a.m. – 5.30 p.m.

**BEM Approved CPD/PDP Hours: 11.5
(IEM18/HQ/448/S)**

Closing Date: 15TH DECEMBER 2018

NO online registration will be allowed after the Closing Date

**Organized & Hosted by:
Civil & Structural Engineering Technical Division, IEM**

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SYNOPSIS

Malaysia has adopted Eurocode 8 (EC8) for the seismic design of building structures. Research into seismic actions and analysis methods suitable for low-to-moderate seismicity regions have been carried out for around a decade by the study group which was established under WG1 for the Malaysia National Annex (NA) of EC8.

Many of the speakers for this seminar are amongst the main contributors to the study group. Followed by the publication of the NA, the speakers will make use of this seminar to share insights of the NA and to provide guidance for best practices in the earthquake resistant design of structures for Malaysia.

The presented topics include background of seismic actions modelling for Malaysia as stipulated in the NA, the selection of response spectrum for input into a structural analysis package for calculation of the seismic demand, general seismic design considerations, workflow of structural analysis of a building subject to seismic actions and simplified deemed-to-comply seismic detailing for building frames fulfilling DCM requirements in EC8.

A half-day workshop based on an example RC frame building illustrating computer modelling and structural design techniques will be demonstrated by a few experienced practicing engineers who are amongst the speakers. The speakers of this seminar are motivated to continue with the development of a simplified DCM seismic design and detailing solution fulfilling EC8 for shear wall building structures in the future sequel of this seminar series.

SPEAKERS



Nelson Lam is Professor and leader of the Structures and Buildings Discipline in Department of Infrastructure Engineering at The University of Melbourne. He has 36 years of experience in structural engineering, and has been working in the specialized field of earthquake engineering, impact dynamics and structural dynamics in the past 29 years. He is member of the Seismic and Dynamic Events Panel commissioned by the London Headquarter of The Institution of Structural Engineers and also member of the standing committee for future revisions to the Australian standard for seismic actions. His achievement in research in this field was recognized by the award of the Chapman Medal (1999) and Warren Medal (2006) by Engineers Australia; and Chapman Medal for the second time in 2010. He is also recipient of Award for Teaching Excellence given out by Engineers Australia in 2012 and Academic Staff Teaching Award by Melbourne School of Engineering in 2013. He is lead author of the professional guidebook titled Design of Buildings and Structures in Low to Moderate Seismicity Regions which was launched in June this year. The book can be accessed free online using this link: <https://www.polyu.edu.hk/cnerc-steel/publications.html>. Nelson's early career as a structural engineer was with Scott Wilson International throughout the 1980's and attained British chartered engineer status during that period. He was awarded the degree of BSc in civil engineering with first class honours at the University of Leeds, England in 1981, MSc degree in concrete structures at Imperial College of Science & Technology, London in 1982 and PhD in earthquake engineering at The University of Melbourne in 1993.



Dr. Hing-Ho Tsang is currently a Senior Lecturer at Swinburne University of Technology, Australia. He lectured at the University of Hong Kong from 2007 to 2012, and was a Visiting Professor at Karlsruhe Institute of Technology, Germany, in 2013 and 2016.

He served as an Advisor and co-developed a seismic design guideline for the Hong Kong Housing Authority, and was consulted on the seismic analysis of the 39-km Hong Kong-Zhuhai-Macao Bridge. He has authored or co-authored over 160 research articles. His research achievement has won him four international awards and three university prizes.



Dr. Daniel Looi is a Lecturer at Swinburne University of Technology (Sarawak campus), Malaysia. He specialises in the field of earthquake engineering, with particular interest in the seismic behaviour of reinforced concrete structures in low-to-moderate seismicity region. He is a key contributor to the development of the National Annex to Eurocode 8 on the seismic design of building structures for Malaysia. His research in concrete structures was recognised by the HKIE Outstanding Paper Award for Young Researcher/Engineer (2015). He is a frequent speaker and co-speaker in IEM seminars, authored and co-authored seismic related research articles in

IEM Jurutera Bulletin and international journal since 2011. Daniel worked as a structural application engineer in a multi-national company, specialised in structural analysis and design computation for buildings and plant. He was trained by the late Ir. MC Hee in his early career as a structural engineer. He is an alumnus of the Civil Engineering Department, University of Hong Kong and University of Malaya.



Ir. EP. Lim is a practising Professional Civil & Structural Engineer with Perunding Hashim & NEH Sdn. Bhd. He has over 32 years of experience in civil & structural engineering design and construction. He was a member of technical committees of (IEM-SWO) for standards in Design of Concrete Structures for MS EN 1990, 1991, 1992 & was a member of IEM C&S WG1 for drafting of Malaysia National Annex of EC8.



Ir. Dr. Ng Soon Ching is the Engineering Manager at Sepakat Setia Perunding Sdn Bhd. Prior to this, he was an Assistant Professor at Universiti Tunku Abdul Rahman (UTAR). He is an active member of IEM and serves as the Council Member as well as Advisor to the Civil and Structural Engineering Technical Division of IEM. He also serves as committee member in Earthquake Technical Committee of SIRIM. He has the opportunity to work under the late Ir. MC Hee in the conceptual design of a 58-storey high-rise building in Kuala Lumpur.

PROGRAMME

DAY 1	<i>18th September 2018</i>	
TIME	PROGRAMME	
0830 – 0900	Registration of Participants for Day 1 Welcome Refreshment	
0900 – 0915	Welcome Address by Ir. Chong Chee Meng, Chairman, Civil and Structural Engineering Technical Division (CSETD), IEM	
0915 – 0930	Devote Time for Remembering the Late Adjunct Prof. M.C. Hee (1 Minutes of SILENCE)	
0930 – 1030	Session 1: Design Seismic Actions Stipulated by the Malaysia NA	Prof. Nelson Lam
1030 – 1100	<i>Morning Tea Break</i>	
1100 – 1115	Q&A Session 1	
1115 – 1215	Session 2: Site Classification and Design Response Spectrum Stipulated by the Malaysia NA	Dr. Hing-Ho Tsang
1215 – 1230	Q&A Session 2	
1230 – 1400	<i>Break for Lunch</i>	
1400 – 1500	Session 3: General Design Considerations: Objectives, Methodology and Procedures	Prof. Nelson Lam
1500 – 1515	Q&A Session 3	
1515 – 1545	<i>Afternoon Tea Break</i>	
1545 – 1645	Session 4: Workflow for Structural Analysis of a RC Building Subject to Design Seismic Actions	Dr. Daniel Looi
1646 – 1700	Q & A Session 4	
1700	End of Day-1 Symposium	

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PROGRAMME

DAY 2	<i>19th September 2018</i>	
TIME	PROGRAMME	
0830 – 0900	Registration of Participants for 2nd Day Welcome Refreshment	
0900 – 1000	Session 5: Tools to Check Dynamics Results Generated from Computer Packages: The Generalised Force Method (GFM)	Prof. Nelson Lam
1000 – 1015	Q&A Session 5	
1015 – 1045	Morning Tea Break	
1045 – 1145	Session 6: EC8 RC Design and Detailing: With A Deemed-To-Comply DCM Solution	Dr. Daniel Looi
1130 – 1145	Q&A Session 6	
1145 – 1215	Workshop Part 1: Example of Applying EC8 and the Malaysia NA - Modelling and Design of a RC Frame Building under DCL	Ir. EP Lim and Ir. Dr. SC Ng
1215 – 1230	Q&A Workshop Part 1	
1230 – 1400	Break for Lunch	
1400 – 1530	Workshop Part 2: Example of Applying EC8 and the Malaysia NA - Modelling and Design of a RC Frame Building under DCM	Ir. EP Lim and Ir. Dr. SC Ng
1530 – 1600	Afternoon Tea Break	
1600 – 1630	Summary and Closing Remarks	Prof. Nelson Lam / Dr. Hing-Ho Tsang
1630 – 1700	Q&A Workshop Part 2 and Overall	
1700	End of Symposium	

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Organised by :

Civil and Structural Technical Division (CSETD), The Institution of Engineers, Malaysia
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Ir. Chong Chee Meng,

Chairman, Civil & Structural Engineering Technical Division (CSETD)

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