



### Technical Seminar on

## Effective Design and Construction to Structural Eurocodes: EN 1990 & 1991, EN 1992, EN 1993 and EN 1994

Professional Development Programme for Design and Construction Engineers to Structural Eurocodes

**Date** : Friday, 24<sup>th</sup> June 2016

**Venue** : Room AG710, 7/F, Chung Sze Yuen Building (Core A), The Hong Kong Polytechnic University.

**Time** : 8:30 am (registration) for 9:00 am to 5:15 pm.

### Programme

Time	Titles	Speakers
<b>9:00</b>	<b>Lecture 1 Introduction and Overview of Structural Eurocodes</b> <i>Evolution of Eurocodes; Overall organization; Parts and National Annexes; National Defined Parameters; NCCI; Notation and conventions.</i>	<b>Dr. Michael Yam</b> <i>PolyU</i>
<b>9:45</b>	<b>Lecture 2 EN 1990: Basis of Structural Design &amp; EN 1991: Actions on Structures</b> <i>Basis of design; Structural behavior; Actions; Load combinations; Load factors; Comparisons with British Standards.</i>	<b>Dr. T. M. Chan</b> <i>PolyU</i>
<b>10:30</b>	<b>Refreshments</b>	
<b>11:00</b>	<b>Lecture 3 EN 1992: Design of Concrete Structures</b> <i>Background of EN 1992; Material properties; General design principles and methods for reinforced concrete members; Comparison of EN 1992, Hong Kong concrete code 2013 and BS 8110.</i>	<b>Prof. J. S. Kuang</b> <i>HKUST</i>
<b>12:30</b>	<b>Lunch Break</b>	
<b>2:00</b>	<b>Lecture 4 EN 1993: Design of Steel Structures</b> <i>Material properties; General design principles and methods for structural steel members; Comparison of EN 1993, Hong Kong Steel Code 2011 and BS 5950.</i>	<b>Dr. Paul Lam</b> <i>CityU</i>
<b>3:00</b>	<b>Lecture 5 Effective Design and Construction using EN 1993 in Hong Kong</b> <i>Equivalent steel materials; Quality assurance; Equivalent welded sections; Design rules for welded sections; Design tables.</i>	<b>Prof. K. F. Chung</b> <i>PolyU</i>
<b>3:45</b>	<b>Refreshments</b>	
<b>4:15</b>	<b>Lecture 6 EN 1994: Design of Composite Steel-Concrete Structures</b> <i>Material properties; General design principles and methods for composite columns and beams; Typical applications; Comparison of EN 1994 and Hong Kong Steel Code 2013.</i>	<b>Prof. K. F. Chung</b> <i>PolyU</i>
<b>5:15</b>	<b>End</b>	