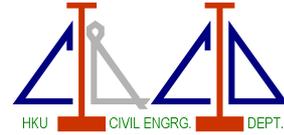




Department of Civil Engineering
The University of Hong Kong



Centre for Infrastructure and
Construction Industry Development

SEMINAR

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Ensuring Effective Time Management in Construction Projects Using Lean Principles

by

Dr David CHUA
Associate Professor, Department of Civil Engineering
National University of Singapore

Date: **September 24, 2009 (Thursday)**
Time: **5:30 p.m. - 6:30 p.m.**
Venue: **Room 167, Main Building**
The University of Hong Kong, Pokfulam Road, Hong Kong

ABSTRACT

Projects are becoming more complex and dynamic. This poses a greater challenge for project management to better manage the various trades, meet owner's requirements and project constraints. Traditionally, a project is viewed as a sequence of activities that converts inputs to outputs to meet project goals. This has been the model for current project management systems. Waste activities such as waiting, inventory, moving material and inspection are not generally modeled by these systems. Cost savings has been focused almost solely on making the conversions more efficient. But to achieve dramatic improvements, construction should adopt a new philosophy and management approach that views its processes as flows comprising both waste and conversion activities. In this way, non value-adding activities can be identified and eliminated or reduced. Various key ideas in lean construction will be presented: theory of constraints, shielding the production process, getting to plan and flow reliability, identifying bottleneck constraints in project schedules.

ABOUT THE SPEAKER

Dr David Chua is a registered professional engineer in Singapore and is currently an Associate Professor in the Department of Civil Engineering at the National University of Singapore. He is also the Director of the Laboratory for Concurrent Engineering and Logistics, a multi-disciplinary centre of the Engineering Faculty. He obtained his PhD degree in 1989 from University of California, Berkeley, USA. He has more than 25 years of research and practical experience in the industry. His research interests in the recent years have been in lean construction, computer integrated and IT-based construction management, construction simulation, risk management and construction safety. He has written over 100 technical publications, editor for two books, and contributed a chapter to three books. He serves as the specialty editor on schedule control for the Journal of Construction Engineering and Management, ASCE, and serves in the international editorial board for several international conferences.

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