



## **Annual Scientific Meeting**

### **Applying Six-Sigma to Manage Safety: a Case Study**

**Professor Richard So**

**Department of Industrial Engineering and Logistics Management  
The Hong Kong University of Science and Technology**

**Date: 30 May 2009 (Saturday)**

**Time: 5:00 to 6:00 pm**

**Venue: ST522, The Hong Kong Polytechnic University**

In Hong Kong, more than five hundred thousand container units per year are handled by small mid-stream cargo operators located at the public cargo working areas (PCWAs). Unfortunately, over 600 fall accidents were reported at PCWAs between 1995 and 2005 resulting in more than 45 deaths.

This talk will present the results of a Six Sigma study conducted to reduce fall accidents at PCWAs. With help from the Logistics Cargo Supervisors Association and the Hong Kong Occupational Safety and Health Council (OSHC), we conducted focus group interviews and questionnaire surveys at the PCWAs. Data indicated that jumping from one container to another as well as resting and standing on a lifted container are the most hazardous procedures. During the presentation, the Six Sigma methodology will be explained. In particular, how the Six Sigma process was applied to this occupational safety study will be discussed. The presenter would like to acknowledge the support of HK OSHC in funding the original study.

*The Hong Kong Ergonomics Society is a member (Federated Society) of the International Ergonomics Association. We aim to advance the science of ergonomics in Hong Kong by promoting research, application and education in ergonomics.*

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