

Second Announcement and Call for Papers

First International Conference on Performance-based and Life-cycle Structural Engineering (PLSE 2012)

5-7 December 2012, Hong Kong, China
Regal Kowloon Hotel, 71 Mody Road, Tsimshatsui, Hong Kong



Organised by
Faculty of Construction and Environment
The Hong Kong Polytechnic University
www.polyu.edu.hk/fce/PLSE2012

Aim of the Conference

Both performance-based structural engineering and life-cycle structural engineering are important areas of structural engineering research; they have also been gaining gradual acceptance in structural engineering practice. This conference series is launched to provide an international forum for scientific exchanges in both areas and their interaction. In particular, performance-based life-cycle structural engineering, based on a full integration of the two areas, offers an exciting new direction for structural engineering within the context of sustainable urban development.

Scope of the Conference

Papers relating to all aspects of the following three themes are invited:

- Performance-based structural engineering
- Life-cycle structural engineering
- Integration of performance-based and life-cycle structural engineering

The following topics are not exhaustive and papers which fall within the three themes of the conference will all be considered:

- Sustainable structural materials
- Deterioration science of structural materials
- Durability enhancement technologies
- Structural performance under extreme loadings
- Structural performance in extreme environments
- Computer simulation of structural performance
- Life-cycle performance assessment and management
- Design and optimization for life-cycle structural performance
- Service life evaluation and extension
- Structural health monitoring in life-cycle performance assessment and management
- Probabilistic approaches in life-cycle performance assessment and management
- Life-cycle cost analysis
- Life-cycle carbon footprint
- End-of-life strategies

Conference Programme

The three-day conference programme will include keynote lectures, invited lectures, mini-symposia and parallel sessions. English will be the official language of the conference for both oral and written presentation.

Keynote Speakers



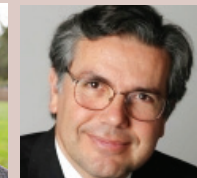
Prof. Nick Buenfeld
Imperial College London



Prof. Oral Buyukozturk
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Stanford University



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University of California, Berkeley



Prof. Dan M. Frangopol
Lehigh University



Prof. Koichi Maekawa
University of Tokyo



Prof. J.P. Ou
Dalian University of Technology



Prof. Frieder Seible
University of California, San Diego



Prof. Surendra P. Shah
Northwestern University

Important Dates

- 15 January 2012 Submission of Abstracts*
- 15 February 2012 Submission of Mini-symposium Proposals
- 1 May 2012 Submission of Papers
- 1 July 2012 Notification of Paper Review Outcome
- 1 August 2012 Submission of Finalized Papers

*Late abstracts received before the paper deadline (1 May 2012) will be considered on a case-by-case basis

Submission of Abstracts and Enquiries

Abstracts and enquiries should be sent to the Conference Secretariat at clplse@inet.polyu.edu.hk.

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