

## FCLU Distinguished Lecture

# Natural/Hybrid Ventilation: A Case for Positive Wind Effects on Buildings



**Prof. Theodore STATHOPOULOS**

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Canada

### Abstract

Wind effects on buildings can be either negative (wind loading, wind-induced damage incidents etc) or positive (dispersion, energy, natural / hybrid ventilation). The recent interest in sustainable technologies has led to a renewed examination of supporting techniques such as natural / hybrid ventilation.

The presentation will address the major barriers for the deployment of natural ventilation in buildings and will show the details of a strategy aiming at minimizing building energy consumption, optimizing the quality of indoor environment and addressing wind-load design issues. Specific case studies will be presented and the significance of experimental measurements to establish an accurate design methodology will be demonstrated.

### All Interested Are Welcome

Please register online at  
[http://www.polyu.edu.hk/fclu/seminar/DL\\_31Mar09/](http://www.polyu.edu.hk/fclu/seminar/DL_31Mar09/)

For enquiries, please contact Ms Becky Chang at

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Fee : Free of charge

- An attendance certificate will be issued to each registered participant.
- Applicants with confirmed registration who fail to turn up will be put on lower priority in the registration for the next Faculty distinguished lecture or seminar.

### About the Speaker

Dr. Stathopoulos received his Civil Engineering Diploma from the National Technical University of Athens, Greece and both his M.E.Sc. and Ph.D. from the University of Western Ontario. He is a specialist in the area of wind engineering and building aerodynamics including natural ventilation. He has published more than 300 papers in refereed journals and conference proceedings. Dr. Stathopoulos has participated actively in numerous external bodies including the ASCE Standards Committee of Minimum Design Loads of Buildings and Other Structures. He has been honored by the American Association for Wind Engineering and he received the 1997 Engineering Award of the National Hurricane Conference. Dr. Stathopoulos is a professional engineer registered in Québec, Ontario and in Greece; he is Fellow of the Canadian Academy of Engineering and also Fellow of the American Society of Civil Engineers. He is the Editor of the Journal of Wind Engineering and Industrial Aerodynamics (since May 2005) and member of Editorial Board of the ASCE Journal of Aerospace Engineering and Wind and Structures.



Date:  
31 March 2009  
(Tuesday)

Time:  
6:30p.m. to 7:30p.m.  
(Refreshments will be served at 6:00p.m.)

Venue:  
Chiang Chen Studio Theatre,  
The Hong Kong Polytechnic  
University

