

**Research Project under the Korean-Japan Basic Scientific  
Cooperation Program**

**Optimization Study on the Evaluation and Development of the Ventilation  
Design Criteria for Constructing the Future Zero-Energy Town**

**Time: 15:15 – 18:00, March 5, 2011**

**Venue: Main Conference Room, 6th Floor, Honkan building, Atsugi Campus  
Tokyo Polytechnic University**

**Program**

- 15:15-15:20 Opening speech  
Masaaki Ohba (Japanese research leader, Tokyo Polytechnic University)
- 15:20-15:35 Review of ventilation research study ,  
Lun Isaac (Tokyo Polytechnic University)
- 15:35-15:50 Building simulation on reduction of cooling loads and thermal comfort  
by using cross-ventilation in Japan and Korea  
Kenji Tukamoto (Tokyo Polytechnic University)
- 15:50-16:05 Gap effect of multiple buildings on surface pressure under turbulent  
boundary layer  
Hyung-Bong YANG (Pusan National University)
- 16:05-16:20 Study of cross- ventilated indoor air flow characteristics by frequency  
analysis  
Tomoyuki Endo (Kanto Gakuin University)
- 16:20-16:40 **Coffee Break**
- 16:40-16:55 Study on thermal comfort using by-muti-fan controllable climate chamber  
Masaaki Ohba (Tokyo Polytechnic University)
- 16:55-17:10 Study on the turbulence flow around various cavities  
Hee-Chang LIM (Pusan National University)
- 17:10-17:25 Domain decomposition technique applied to evaluation of cross-  
ventilation performance of various opening conditions of a building  
Takashi Kurabuchi, Kumiko Tsuruta (Tokyo University of Science)
- 17:25-17:30 Closing speech

Hee-Chang LIM (Korean research leader, Pusan National University)

17:30-18:00 Discussion on future work

18:00-19:30 Reception Party (2nd Floor, Honkan building)