

# RESUME



## Yen-Yi Joseph Li

### Current position:

Assistant Professor

Department of Interior Design /

Graduate School of Architecture and Interior Design

ShuTe University, Taiwan

General Secretary, Taiwan Society of Sustainable Built Environment

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## EDUCATION

**06/1996, B.E. in Architecture,**

College of Engineering, National Cheng-Kung University

**06/1998, M.E. in Architecture, Group of Environment Control Engineering,**

College of Engineering, National Cheng-Kung University

**07/2004, PhD in Architecture, Group of Environment Control Engineering,**

College of Design, National Cheng-Kung University

**08/2004-02/2005 Postdoctoral Researcher, Dept. of Environmental and**

Occupational Health, College of Medicine, National  
Cheng-Kung University

## RESEARCH INTERESTS [\[Top\]](#)

Control strategy of building indoor environmental quality

Building Ventilation (Experiment and CFD solutions on natural and HVAC  
ventilation)

Green building and technology

Eco-community and Eco-City

## EXPERIENCE [\[Top\]](#)

**09/1998-12/1999, Projector manager, SJ Sung Architect Studio**

**09/1999-07/2004, Researcher of Archilife Environ-Control Research Centre,**  
National Cheng-Kung University

**01/2000-12/2000, Architect, Ou Wen-Shiun Architect Firm**

**02/2001-02/2004, Lecturer, Dept. of Interior Design, ShuTe University**

**08/2003-07/2004, Community planner, Kaohsiung County Government**

- 02/2005- now,**            **Assistant Professor**, Graduate School of Architecture and Interior Design, ShuTe University
- 02/2005-09/2005,**    **Director of Planning**, Vision Urban Planning and Design Consulting International Inc., Beijing, China
- 04/2006-02/2007,**    **General Secretary**, Taiwan Society of Indoor Environmental Quality
- 05/2007-now,**         **General Secretary**, Taiwan Society of Sustainable Built Environment (iiSBE-Taiwan)
- 09/2009-now,**         **Associate Principal**, Architect, EAC- Innovations of Environmental Analysis Consultant Co. Ltd

### **CONSULTING RECORD** [\[Top\]](#)

- Challenge 2008: Sustainable Campus Renovation and Spread Project, Ministry of Education, Taiwan
- Committee member of environmental education and technology, Tainan county government
- Committee member of IEQ improvement for public buildings, Architecture and building research institute, Ministry of Interior, Executive Yuan, Taiwan. ([www.abri.gov.tw](http://www.abri.gov.tw))
- Committee member of Sustainable campus planning, ChengHua county government
- SB Consultant of Asia Pacific Online Service Inc.
- Consultant of MAO Real Estate Appraiser & Associates (<http://damao.com.tw>)

### **CERTIFICATIONS** [\[Top\]](#)

- 1998.12.      Certifying of National Architect
- 2003.04.      Certifying of environment planner of sustainable campus
- 2003.05.      Certifying of professional interior decoration technical personnel
- 2005.09.      Certifying of green building technical personnel

### **AWARDS RECEIVED** [\[Top\]](#)

- 1998,      Excellent Master Thesis Award, The Phi Tau Phi Scholastic Honor Society
- 1998,      Scholarship of Master thesis by Archilife Research Foundation
- 2004,      Excellent PhD Thesis Award, The Phi Tau Phi Scholastic Honor Society
- 2004,      Scholarship of PhD thesis by Archilife Research Foundation

- 2004, Outstanding paper award, Journal of Architecture, Architectural Institute of Republic of China
- 2011, Best Paper Award, The 9th China Urban Housing Conferences, CUHK, HK.

### **MEMBERSHIP** [\[Top\]](#)

- American Society of Heating, Ventilation and Air Conditioning Engineers (ASHRAE)
- International Society Indoor Air Quality and Climate (ISIAQ)
- International Institute of Sustainable Building and Environment (iiSBE)
- Architectural Institute of Republic of China (AIRC: M2024)
- Taiwan Institute of Urban Planning (TIUP)
- Taiwan Society of Refrigerating and Air-Conditioning Engineers (CSHRAE)
- Chinese Association for Aerosol Research (CAAR)
- The Phi Tau Phi Scholastic Honor Society, Taiwan
- Taiwan Society of Indoor Environmental Quality (TSIEQ)
- Taiwan Society of Sustainable Built Environment (TSSBE)

### **RECENT INVITED PRESENTATIONS** [\[Top\]](#)

- Presentation at the Lecture Course: Global Warming and Solution Strategy, National Taipei University of Technology, “Sustainable Thoughts and the Green Building Strategy”, Nov, 2007.
- Presentation at International Workshop on Eco-Village Tainan, Council for Economic Planning and Development, Executive Yuan (CEPD), “Tainan High Speed Rail Station Special District: The Next City -- Eco-Village Planning and Practice”, Nov. 2007.
- Presentation at the Lecture Course: Control Strategy and Technology on Indoor Environmental Quality, College of Medicine, National Cheng-Kung University, “Building Structure, Ventilation, and the IEQ”, Oct, 2007.
- Presentation at International Workshop on Sustainable City Structure, Architecture and Building Research Institute, Ministry of Interior, “From Building Ecology to Urban Ecology”, Oct. 2007.

### **INTERNATIONAL AFFAIRS** [\[Top\]](#)

- Group Leader of Organizer on SB07Taipei (International Conference on Sustainable Building 2007 Taipei), Nov. 2007. ([www.sb07.org](http://www.sb07.org))
- Delegate of Taiwan Group on EU Eco-city Project (The only ecocity project in Asia, the joint project for both Taiwan and EU ecocity working group),

2004-2007

- General Secretary of TSSBE (iiSBE-Taiwan), 2008-2010

## **RECENT PROJECTS** [\[Top\]](#)

- Director, “Study on heat-wave-impact evaluation of heat adaptation efficiency of Typical Taiwan residential buildings”, (96-2221-E-366-013-), National Science Council, Executive Yuan, 2007.08-2008.07.
- Principal Investigator, “Development on Multi-Porous Layers Control Technology of Thermal and Natural Ventilation Efficiency in Symbiosphere Research Center (2/3)”, Archilife Research Foundation, 2007.09-2008.06
- Director, “2008 Ultra-Potential Award: Competition on Renovation of Commercial Building Façade and the Lobby”, Kaohsiung City Government, 2007.11-2008.04.
- Co-Director, “Integrated Sustainable Planning on Academia Sinica”, The Academia Sinica., 2007.08-2008.03.
- Co-Director, “The Tainan HSR Station: NEXT CITY- Ecological Learning and Research City”, CEPD, 2007.03.-2008.01
- Co-Chair, “Planning and Design of WuanHua Station and Surrounding Landscape Reconstruction BOT Project”, Taiwan Railway Administrations, 2007.06-2008.06
- Co-Chair, “Establishment of Living Environment basis on U-Campus”, Ministry of Education, 2007.03.-2007.12
- Director, “Study on developing new tracer-gas-technique for effective evaluation on ventilation efficiency”, (95-2221-E-366-018-), National Science Council, Executive Yuan, 2006.08-2007.07.
- Principal Investigator, “Development on Multi-Porous Layers Control Technology of Thermal and Natural Ventilation Efficiency in Symbiosphere Research Center (1/3)”, Archilife Research Foundation, 2006.09-2007.02.
- Director, “Renovation Project of MaoBiTou Tourist Service Center and Sustainable Landscape Reform”, Kending National Park Administration Office, Construction and Planning Agency, Ministry of Interior, 2006.02-2007.09.
- Co-Director, “Assessment, control and improvement of indoor air quality, noise and electromagnetic exposure in computer classrooms”, National Science Council, Executive Yuan, 2006.08-2007.07.

## A. (Peer Reviewed Journals)

- J1 Yen-Yi Li, 2010.12, The study on the relationship of impact factors on Indoor Air Quality in Elementary Schools, *Journal of Interior and Architectural Design*, Vol. 10, pp.13-26
- J2 Chang, F., Li, YY, Tsai, CY and Yang, CR, 2009.11., Specific Indoor Environmental Quality Parameters in College Computer Classrooms, *International Journal of Environmental Research.*, Vol. 3, No. 4, pp. 517-524 **【SCI】**
- J3 CM Chiang, NT Chen, PC Chou, Yen-Yi Li, 2008.06, A Study on the Efficacy of Horizontal Wind Deflector on Indoor Natural Ventilation, *Journal of Architecture*, Architecture Institute of Republic of China, No.64. pp.83-102 **【TSSCI】** (NSC93-2211-E-006-063)
- J4 PC Chou, CM Chiang, YY Li, et al., 2008.03., Natural Ventilation Efficiency in a Bedroom with a Central-Pivoting Window, *Indoor and Built Environment*, 17;2:164 – 172 **【SCI】**
- J5 P.C. Wu, **Y.Y. Li**, C.C. Lee, F.C. Li, C.Y. Huang, C.M. Chiang, H.J. Su, 2005.03., Changing microbial concentrations associated with ventilation performance in Taiwan's air-conditioned office buildings, *International Journal of Indoor Air Quality and Climate*, Vol.15., No.3-1, pp.19-26 **【SCI】**
- J6 Che-Ming Chiang, **Yen-Yi Li**, Wen-Cheng Shao, Huey-Jen Su, 2005.03, Effects of indoor materials on formaldehyde and volatile organic compound emissions in office buildings, *Journal of Architecture*, Architectural Institute of Republic of China, No.49. pp.01-21 **【TSSCI】** (NSC-91-2621-Z-006-007)
- J7 Wu PC, **Li YY**, Chiang CM, Su HJ, Lee CC, 2004.07., Relationship of multiple indoor air pollutants and sick building syndrome at air-conditioned office buildings in Taiwan, *EPIDEMIOLOGY*, 15 (4): S16-S16 **【SCI】**
- J8 **Yen-Yi Li**, Chu-Yun Huang, Huey-Jen Su, Che-Ming Chiang, 2004.06., Variation of indoor air pollution associated with ventilation systems in two seasons., *Journal of Architecture*, Architectural Institute of Republic of China, No.46, pp.81-102. **【TSSCI】** (2004 Outstanding paper award, *Journal of Architecture*, AIRC)(NSC-87-EPA-P006-012)
- J9 P.C. Wu, **Y.Y. Li**, C.C. Lee, C.M. Chiang, H.J. Su, 2004.04, Risk assessment of formaldehyde at typical office buildings in Taiwan. *International Journal of Indoor Air Quality and Climate*, Vol.13., No.1-5 **【SCI】**
- J10 Che-Ming Chiang, Chi-Ming Lai, Po-Cheng Chou, **Yen-Yi Li**, 2000, The Influence of An Architectural Design Alternative ( Transoms ) on Indoor Air Environment in Conventional Kitchens in Taiwan, *Building and Environment*, Vol. 35, No. 7. **【SCI, EI】**
- J11 Che-Ming Chiang, Po-Cheng Chou, Chi-Ming Lai, **Yen-Yi Li**, 2000, A Methodology to Access the Indoor Environment in Care Centers for Senior Citizens, *Building and Environment* Vol. 36, No. 4. **【SCI, EI】**

## B. (International Conference with peer reviewed)

- C1 CM Chiang, CC Yu, **YY Li**, 2007.11., The Renovation Process to Sustainable Living Style: the Experience of Tainan Ecocity Project in Taiwan, International Conference on Sustainable Building 2007 Taipei, pp.D0901-D0908, Taipei, Taiwan
- C2 **YY Li**, CM Chiang, 2007.11., Renovation Process: The Seven Steps toward to Ecocity, International Conference on Sustainable Building 2007 Taipei, pp.B0501-B0504, Taipei, Taiwan
- C3 CM Chiang, **YY Li**, 2007.11., A Comprehensive Design Procedure for Sustainable Building : Perspective and Practice of Taiwan, International Conference on Sustainable Building 2007 Taipei, pp.F0501-F0506, Taipei, Taiwan

- C4 YP Lin, CM Chiang, NT Chen, **YY Li**, PC Chou, 2007.11., A Study on the Air Environment Performance of Building Openings in Taiwan, International Conference on Sustainable Building 2007 Taipei, pp.A0801-A0806, Taipei, Taiwan
- C5 CM Chiang, DE Lin, PC Chou, **YY Li**, 2007.11., The Model Simulation of the Architectural Micro-Physical Outdoor Environment, International Conference on Sustainable Building 2007 Taipei, pp.A0101-A0109, Taipei, Taiwan
- C6 **YY Li**, CM Chiang, 2007.09., The Strategic Study of Indoor Air Quality on Material Control Strategy in Typical Taiwan Office Buildings, 2007 Subtropical Green Building International Conference, pp.160-166, Taipei, Taiwan
- C7 HJ Su, PC Wu, **YY Li**, CM Chiang, 2006.06., Diurnal and day-to-day variations of viable microbial concentrations inside air-conditioned buildings, 8<sup>th</sup> International Conference of Healthy Building 2006, p220, Lisboa, Portugal
- C8 NT Chen, YP Lin, PC Chou, **YY Li**, 2006.06., The system of vertical baffle with intelligent real time adjustment by ventilation performance in a room, 2006 Symposium on Digital Life Technologies: Building a Safe, Secured and Sound (3S) Living Environment ,CD-ROM
- C9 **YY Li**, WA Wang, NT Chen, *et al.* 2005.09., New experimental building for naturally ventilated solutions in the subtropical region, The 2005 World Sustainable Building Conference, pp.2459-2464, Tokyo
- C10 **YY Li**, PC Wu, WC Shao, *et al.* 2005.09., Material control strategy based on risk assessment in Taiwan office building, The 2005 World Sustainable Building Conference, pp.1531-1536, Tokyo
- C11 HH Chen, CM Chiang, **YY Li**, HJ Su, 2005.09., The theory, practice and primary achievements of sustainable campuses reconstruction project in Taiwan, The 2005 World Sustainable Building Conference, pp.4569-4574, Tokyo
- C12 HJ Su, CM Chiang, **YY Li**, *et al.*, 2005.09., Development, execution and progress of the “Taiwan sustainable campus program”, The 2005 World Sustainable Building Conference, pp.4772-4777, Tokyo
- C13 **YY Li**, PC Wu, HJ Su, CM Chiang, 2005.09., The practical IAQ control strategy in building renovation process in Taiwan office buildings, The 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, Beijing
- C14 CM Chiang, NT Chen, PC Chou, **YY Li**, IC Lien, 2005.09., A study on the influence of horizontal louvers on natural ventilation in a dwelling unit, , The 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, Beijing
- C15 YP Lin, CM Chiang, NT Chen, **YY Li**, PC Chou, 2005.09., The influence of porous screens on natural ventilation in a dwelling unit, , The 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, Beijing
- C16 PC Wu, **YY Li**, CM Chiang, CC Lee, HJ Su, 2004.07., Relationship of multiple indoor air pollutants and sick building syndrome at air-conditioned office buildings in Taiwan, Sixteenth Conference of the International Society for Environmental Epidemiology, Epidemiology. 15(4):S16, New York, USA
- C17 **Yen-Yi Li**, Che-Ming Chiang, Chao-Shin Lee, Nien-Tsu Chen, Huey-Jen Su, 2003.06., Effects of building material on levels of volatile organic compounds in Taiwan’s typical office buildings, 7<sup>th</sup> International Conference on Healthy Building 2003, Singapore.
- C18 Nien-Tsu Chen, **Yen-Yi Li**, Po-Cheng Chou, Che-Ming Chiang , 2003.06., The Influence on Ventilation Efficiency in Typical Dwelling with Floor-Based Displacement Ventilation, 7<sup>th</sup> International Conference on Healthy Building 2003, Singapore.
- C19 P.C. Wu, H.J. Su, **Y.Y. Li**, C.M. Chiang, 2003.06., Indoor Air Quality and Sick Building Syndrome of Office Buildings in Taiwan, 7<sup>th</sup> International Conference on Healthy Building 2003, Singapore.
- C20 P.C. Chou, C.M. Chiang, K.F. Chang, **Y.Y. Li**, N.T. Chen, 2003.06., Criteria for Design of Indoor Environment in Sustainable Buildings, 7<sup>th</sup> International Conference on Healthy Building 2003, Singapore.
- C21 C.M. Chiang, N.T. Chen, **Y.Y. Li**, P.C. Chou and W.C. Shao, 2003.02., The influence on ventilation efficiency in a dwelling with floor-based natural displacement ventilation by CFD solutions, The 7<sup>th</sup> International Symposium on Ventilation for Contaminant Control, August 5 - 8, 2003, Sapporo, JAPAN

- C22 CM Chiang, HJ Su, KC Chung, FM Lin, PC Chou, **YY Li\***, 2002.10., New Climate-Oriented Designing and Controlling Strategy for Sustainable Building in Subtropical Region, International Conference of Sustainable Building 2002, Oslo, Norway
- C23 PC. Wu, **YY. Li**, CY Huang, CM Chiang, HJ Su, 2002, Ventilation Effects on Airborne Microbes at Air-conditioned Office Buildings in Taiwan, Sixth International Aerosol Conference, Taipei, Vol.2, pp.773-774.
- C24 **Y.Y. Li**, P.C. Wu, H.J. Su, P.C. Chou, C.M Chiang, 2002, Effects of HVAC Ventilation Efficiency on the Concentrations of Formaldehyde and Total Volatile Organic Compounds in Office Buildings, INDOORAIR 2002, California Vol3. pp.376-381.
- C25 CM Chiang, PC Chou, **YY Li**, CC Chen, 2002, The Naturally Ventilated Performances of the Transoms Installed the Porous Screens in the Conventional Kitchen of Taiwan, INDOORAIR 2002, California, Vol2. pp.884-889
- C26 P.C. Wu, H.J. Su, **Y.Y. Li**, C.Y. Huang, C.M. Chiang, 2002, Dynamics and Ventilation Effects on Airborne Microbes at Air-conditioned Office Buildings in Taiwan, INDOORAIR 2002, California, Vol2. pp.730-735
- C27 Che-Ming Chiang, **Yen-Yi Li\***, 2001, Development of sustainable building and healthy life based on diversity of ecology, climate and geography in Taiwan, 2001 International Symposium on Sustainable Building and Environment, Taipei. pp.137-145
- C28 Wen-Cheng Shao, Che-Ming Chiang, Po-Cheng Chou, **Yen-Yi Li**, 2001, Reconstruction Strategies for Sustainability on the Eco-Climate Modification – Taking the Buddhist Temples after the 921-Earthquake Calamity as the Reviewed Illustration, 2001 First “International Conference on Planning and Design”, CD-ROM, Tainan, TAIWAN
- C29 Che-Ming Chiang, Huey-Jen Su, **Yen-Yi Li**, Po-Cheng Chou, Wen-Cheng Shao, 2001, Stride Forward to Sustainable Healthy Building, Past, Present and Future— From Global View to Local Action in Taiwan, 2001 First “International Conference on Planning and Design”, CD-ROM, Tainan, TAIWAN
- C30 **Yen-Yi Li**, Che-Ming Chiang, Po-Chen Chou, *et al.*, 2000 ,Utilizing Ventilation Efficiency Factors to Predict Indoor Carbon Dioxide Concentration in Field Measurements of Taiwan’s Office Buildings, ROOMVENT 2000, Vol 2, Reading, UK.
- C31 Che-Ming Chiang, **Yen-Yi Li**, Po-Cheng Chou, Chi-Ming Lai, 1999, Evaluating Natural Ventilation Efficiency of the Central Horizontal Pivot Window in a Full-Scale Taiwan typical Model Room, Asia-Pacific Conference on the Built Environment, Taipei, Taiwan.
- C32 Che-Ming Chiang, Chi-Ming Lai, Po-Cheng Chou, **Yen-Yi Li**, Yu-Feng Tu, 1999, The Study on the Comprehensive Indicators of Indoor Environment Assessment for Occupants’ Health in Taiwan, Asia-Pacific Conference on the Built Environment, Taipei, Taiwan.
- C33 Che-Ming Chiang, Po-Cheng Chou, Chi-Ming Lai, **Yen-Yi Li**, Yu-Feng Tu, 1999, The Influence of HVAC Systems on Indoor Air Quality in the Office Buildings in Commercial Districts in Taiwan, Asia-Pacific Conference on the Built Environment, Taipei, Taiwan.
- C34 Che-Ming Chiang, Huey-Jen Su, Chi-Ming Lai, Po-Cheng Chou, **Yen-Yi Li\***, Yu-Feng Tu, 1999, Indoor Air Quality Assessment in an Office Building in an Industrial Park in Taiwan, Asia-Pacific Conference on the Built Environment, Taipei, Taiwan.
- C35 Che-Ming Chiang, Po-Cheng Chou, Chi-Ming Lai, **Yen-Yi Li**, Xiu-Fang Wang, 1999, A Study on the Indicators of Physical Environment for Sustainable Cities and Buildings in the Subtropical Region—Taking Four Cities in Taiwan as our Examination Objects, International Symposium on City Planning, Tainan, Taiwan.
- C36 Che-Ming Chiang, Chi-Ming Lai, Po-Cheng Chou, **Yen-Yi Li**, 1999, The Influence of An Architectural Design Alternative ( Transoms ) on Indoor Air Environment in Conventional Kitchens in Taiwan, INDOOR AIR 99, Edinburgh, UK.
- C37 Che-Ming Chiang, **Yen-Yi Li**, Po-Cheng Chou, Chi-Ming Lai, 1999, CFD Simulation to Predict Natural Ventilation Efficiency in a Dwelling Bedroom with the Central Horizontal Pivot Window, INDOOR AIR 99, Edinburgh, UK.
- C38 H. J. Su, C. Y. Huang, C. M. Chiang, C. C. Lee, **Y. Y. Li**, 1999, Design of a Comprehensive Indoor Air Quality (IAQ) Investigation and Its Implication for Proposing IAQ Regulation, INDOOR AIR 99, Edinburgh, UK,

- C39 Che-Ming Chiang, Po-Cheng Chou, Chi-Ming Lai, **Yen-Yi Li**, Xiu-Fang Wang, 1999, A Study on the Indicators of Physical Environment for Sustainable Cities and Buildings in the Subtropical Region—Taking Four Cities in Taiwan as our Examination Objects, International Symposium on City Planning, Tainan, Taiwan.

### **C. (Technical Reports)**

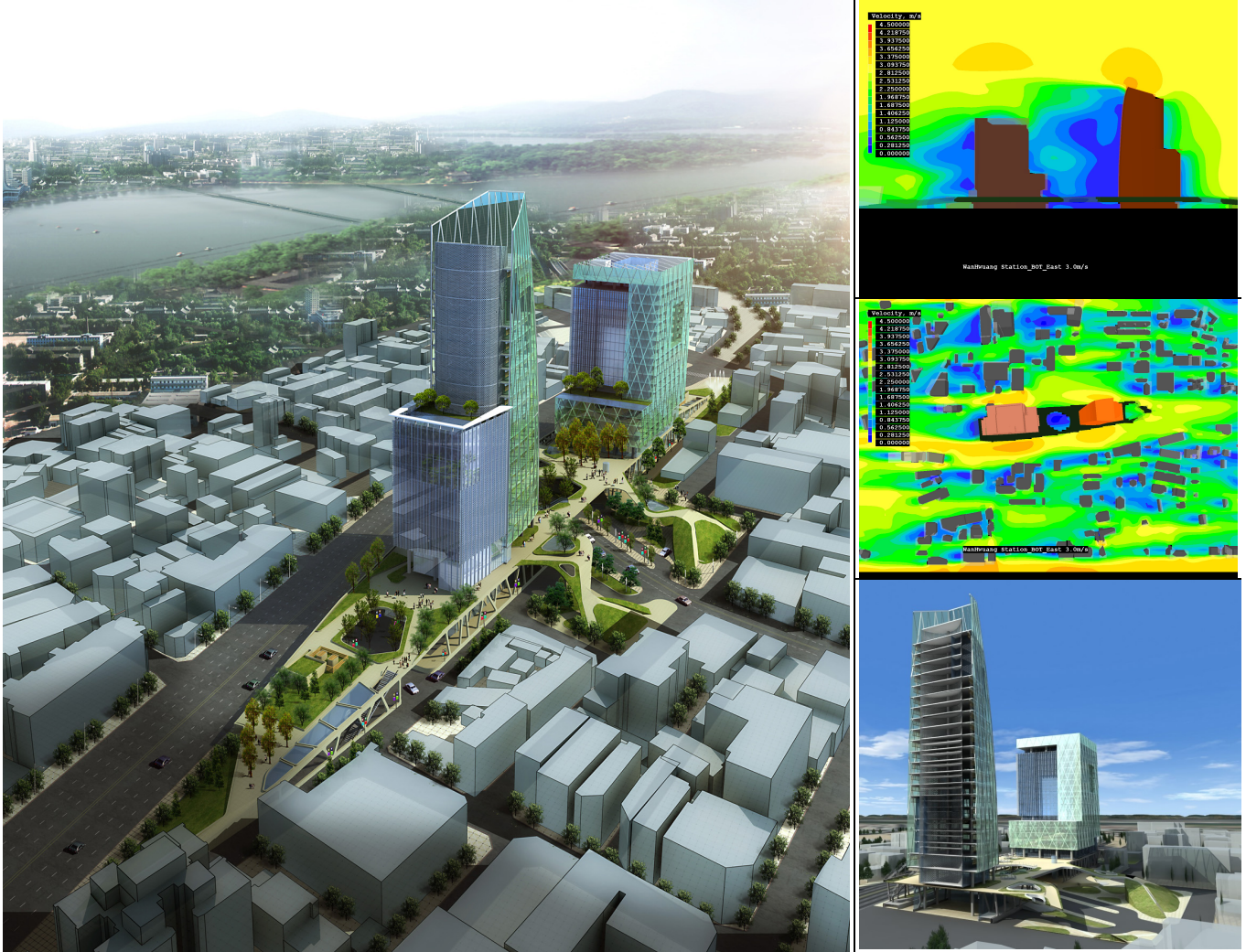
- T1 **YY Li**, PC Chou, 2007.11., “Strategic Practice on the Establishment of Learning Environment in STU Ubiquitous Campus”, Ministry of Education
- T2 **YY Li**, EDS International Inc., 2007.09., “Technical Reports: Evaluation on the impacts of Micro-climate and urban ventilation on the reconstruction of WuanHua railway station and surrounding landscape”, Asia Pacific Online Service Inc.
- C3 **YY Li**, EDS International Inc., 2007.06., “Technical Reports: Evaluation on the impacts of Micro-climate and urban ventilation on the construction of DaAnn transformer station and office building”, Taiwan Power Company.
- C4 **YY Li**, WA Wang., 2007.04., “Technical Reports: Evaluation on the impacts of Micro-climate and urban ventilation on the construction of Mandarin Crown Hotel”, C.Y.LEE & Partners Architects / Planners.
- C5 **YY Li**, EDS International Inc., 2006.08., “Technical Reports: Evaluation on the impacts of Micro-climate and urban ventilation on the comprehensive planning and building renovation strategy for Taipei Central Station Special District”, Taipei City Government..

### **D. (Books Chapters)**

- B1 HJ Su, CM Chiang, CC Yu, **YY Li**, *et al.*, 2007.12., “A technical book for the sustainable renovation process of old campus and building”, Ministry of Education, Taiwan
- B2 HJ Su, CM Chiang, CC Yu, **YY Li**, *et al.*, 2007.06., “A guidebook for the sustainable campus construction”, Ministry of Education, Taiwan
- B3 CM Chiang, PC Chou, **YY Li**, *et al.*, 2004.06., “Introduction to Sustainable Building”, ARCHIDATA / N-KAI, ISBN 957-045459-8



**CASE REPORTS [Top]**



The Planning and Design of WuanHua railway station and surrounding landscape  
(by YY Li, TY Lee, EDS International Inc.)



The Planning of Tainan Ecocity

(GAIA International Consultants, CY Yu, CM Chiang, HJ Su, YY Li, TY Lee, EDS International Inc..)



The Planning of Tainan Ecocity

(GAIA International Consultants, CY Yu, CM Chiang, HJ Su, YY Li, TY Lee, EDS International Inc..)