

Nien-Tsu Nick Chen

Current position

Assistant Professor
Department of Interior Design
Tung-Fang Institute of Technology, Taiwan



Research Interests

Building Environmental Control
Sustainable building and interior design
Building Ventilation (Experiment and CFD solutions on natural and HVAC ventilation)
Diagnosis and improvement of indoor environmental quality
Computer-aided architectural and interior design

Contact

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Education

1999.06, B.E. in Architecture,
College of Engineering, National Cheng-Kung University
2001.06, M.E. in Architecture, Group of Environment Control Engineering,
College of Engineering, National Cheng-Kung University
2007.07, PhD in Architecture, Group of Environment Control Engineering,
College of Planning and Design, National Cheng-Kung University

Experience

2008.05 ~ 2008.07, Project Designer of Yang Hua Planning, Architecture & Design, Durban Group
2001.07 ~ 2007.07, Lecturer of Department of Interior Design, ShuTe University
2006.08 ~ 2007.01, Lecturer of Department of Construction Technology, Leader University
2005.08 ~ 2006.06, Researcher of Archilife Environ-Control Research Center, National Cheng-Kung University
2001.08 ~ 2002.01, Lecturer of Department of Interior Design, ShuTe University

1999.07 ~ 2001.06, Researcher Assistant of Archilife Environ-Control
Research Center, National Cheng-Kung University

Case Reports



2008 Active Campus Guiding Team Plan
(by N.T. Chen, K.S. Liu, Y. S. Tsay, C.M. Chiang)



Kaohsiung City Green Building Improvement and Guidance Plan
(by N.T. Chen, C.M. Chiang, K.S. Liu)



Post paper of the 2008 World Sustainable Building Conference
(by N. T. Chen, C. M. Chiang, Y. P. Lin, Y. Y. Li, P. C. Chou)

Recent Invited Presentations

- ❑ 2009.12, Constructing sustainable campus, Chu-Shan elementary school, Bureau of Education, Nantou County, Government
- ❑ 2009.10, Originality, feature and activation: Sustainable energy and resource reconstruction and education promotion of a campus, Wen-Yuan elementary school, Bureau of Education, Tainan City Government.
- ❑ 2009.10, Healthy building: Prevention, diagnosis and cure about deterioration of building environmental quality, Department of Refrigeration, Air Conditioning and Energy Engineering, National Chin-Yi University of Technology

International Affairs

Recent Projects

- ☐ Director, “2008-2010 Active Campus Guiding Team Plan”, Education of Ministry, 2008.12-2010.12.
- ☐ Director, “A study on the influence of productivity with the different temperatures and wind frequencies”, (98-2218-E-272 -001 -), National Science Council, Executive Yuan, 2009.09-2010.08.
- ☐ Principal Investigator, “A Study on Establishments about Space Styles and Component Systems of Extreme Structure in Symbiosphere No.2”, Archilife Research Foundation, 2009.09-2010.06
- ☐ Director, Kaohsiung City Green Building Improvement and Guidance Plan, Bureau of Public Works, Kaohsiung City Government, 2009.07-2009.12

Consulting Record

Certifications

2009.06 Certificating of intellectual property training program
2005.08 Certificating of green building material promotion course
2004.05 Certificating of environment planner of sustainable campus

Awards Received

2007, Scholarship of PhD thesis by Archilife Research Foundation
2006, Masterpiece of Kun Award by Archilife Research Foundation
2001, Scholarship of Master thesis by Archilife Research Foundation
1995, Books Award, Department of Civil, National Cheng Kung University

Membership

- ☐ **The Member of Council**, Taiwan Association of Sick-Building Consultants (TASBC)
- ☐ Architectural Institute of The Republic of China (AIROC)
- ☐ Chinese Institute of Interior and Architectural Design (CILAD)
- ☐ Taiwan Society of Sustainable Built Environment (TSSBE)
- ☐ Taiwan Society of Indoor Environmental Quality (TSIEQ)

A. (Peer Reviewed Journals)

- J1 Che-Ming Chiang, **Nien-Tsu Chen**, Po-Cheng Chou, Yen-Yi Li, I-Ching Lien, 2008.06, Evaluating the Efficacy of Horizontal Wind Deflector on Indoor Natural Ventilation from Aspects of Health and Comfort, Architectural Institute of Republic of China , No.64. pp.83-102 **【TSSCI】**
- J2 **Nien-Tsu Chen**, Che-Ming Chiang, Po-Cheng Chou, Yi-Ping Lin, Cheng-Lin Chen, 2007.09, A Study on the Influence of Vertical Baffles on the Natural Ventilation of a Dwelling, Architectural Institute of Republic of China , No.61. pp.63-78 **【TSSCI】**

B. (International Conference with peer reviewed)

- C1 **Nien-Tsu Chen**, Che-Ming Chiang, Yi-Pin Lin, Yen-Yi Li, Po-Cheng Chou, 2008, A Discourse of Micro Wind Environment and Indoor Temperature and Humidity adapted on the Building Openings of Taiwan in Subtropical Zone, The 2008 World Sustainable Building Conference, Melbourne, Australia
- C2 Che-Ming Chiang, Cheng-Hsiung Chen, Yuan Hsieh, Chih-Yang Kao, **Nien-Tsu Chen**, Shang-Yuan Chen, Wei-Ju Wang, 2005, The case study of sustainable healthy housing fitting in with subtropical Taiwan's climate and geography, The 2005 World Sustainable Building Conference in Tokyo, pp.2280-2287, Yokohama, JAPAN
- C3 W.A. Wang, Y.Y. Li, **N.T. Chen**, P.C. Chou, C.M. Chiang, 2005, New Experimental Building for Naturally Ventilated Solutions in the Subtropical Region, The 2005 World Sustainable Building Conference in Tokyo, pp.2459-2464, Yokohama, JAPAN °
- C4 Che-Ming Chiang, **Nien-Tsu Chen**, Po-Cheng Chou, Yen-Yi Li, I-Ching Lien, 2005, A study on the influence of horizontal louvers on natural ventilation in a dwelling unit, The 10th International Conference on Indoor Air Quality and Climate, pp.3142-3147, Beijing, CHINA
- C5 Yi-Pin Lin, Che-Ming Chiang, **Nien-Tsu Chen**, Yen-Yi Li, Po-Cheng Chou, 2005, The influence of porous screens on natural ventilation in a dwelling unit, The 10th International Conference on Indoor Air Quality and Climate, Beijing, pp.3137-3141, CHINA

C. (Technical Reports)

- T1 **N. T. Chen**, C. M. Chiang, K. S. Liu, 2009.12., "Technical Reports: Kaohsiung City Green Building Improvement and Guidance Plan", Bureau of Public Works, Kaohsiung City Government
- T2 **N. T. Chen**, Y. S. Tsay, K. S. Liu, C. M. Chiang, 2009.11., "Technical Reports: Active Campus Guiding Team Plan", Education of Ministry
- T3 **N. T. Chen**, K. S. Liu, 2009. "A Case Study on Sustainable Reconstruction of Spare Spaces in a Campus: Take Energy and Resource for Example, Tung Fang University

D. (Books Chapters)

- B1 C. M. Chiang, **N. T. Chen**, *et al.*, 2009.10., "Green Healthy Building: The Earth be Cool", Bureau of Public Works, Kaohsiung City Government, Taiwan, ISBN 9789860203493
- B2 C. M. Chiang, P. C. Chou, K. F. Chang, Y. Y. Li, **N.T. Chen**, *et al.*, 2004.06., "Introduction to Sustainable Building", ARCHIDATA / N-KAI, ISBN 957-045459-8