

Dr. TAN Beng Kiang

Appointment: Assistant Professor
Affiliation: Department of Architecture,
National University of Singapore
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RESEARCH AREAS:

Sustainable design; Architecture and New Media (Design Computing, Interactive environment, Virtual/Physical Environment,)

EDUCATIONAL QUALIFICATIONS

- B.Arch (Hons.), National University of Singapore
- M.Arch, University of California Los Angeles (UCLA), USA
- Doctor of Design, Harvard University
- Registered Architect, Board of Architects Singapore

PROFESSIONAL EXPERIENCE: ACADEMIC

- 1998 – present: Assistant Professor, Department of Architecture, NUS
- 2007 – present: Joint appointment at the Interactive and Digital Media Institute, National University of Singapore
- 2003 July: Visiting fellow, Changing Places/House_n group of MIT Media Lab, USA
- 2002 Fall: Research member, Harvard Center for Design Informatics, USA

PROFESSIONAL EXPERIENCE: INDUSTRIAL

- 1983 – 1996: Senior Architect, Public Works Department, Singapore.
- 1986 – present: Registered Architect, Singapore Board of Architects
- 2006 – present: Council member, Singapore Institute of Architects

AWARDS/HONOURS:

- CIDB Merit Award for Best Buildable Design (1997) for Revenue House
- Most Energy-Efficient Building in ASEAN (2000) Award for Revenue House
- Research Fellowship, Graduate School of Design, Harvard University (2001)

UNIVERSITY, PUBLIC & PROFESSIONAL SERVICE

- Council Member, Singapore Institute of Architects (2006 – present)
- Consultant, Singapore Arts School (2004)
- Member, Technical & Organising Committee, Passive Low Energy Architecture (PLEA) International conference (2007)
- Member, Educational Space Committee, NUS University Town (2008 till present)
- Member, Educational Technology Committee, NUS University Town (2008 till present)
- Chairperson, Department IT Committee (2007 – 2009)

SELECTED PUBLICATIONS

- Tan, Beng Kiang, R U M Cheyyar and SJ HONG, "Naturally ventilated tall office building in the Tropics - Learning from Bawa". Sun, Wind and Architecture, ed. Stephen Wittkopf and TAN Beng Kiang (2007): 219-225. Singapore: Department of Architecture, National University of Singapore.
- Wittkopf, S K and Beng Kiang Tan, eds. Sun, Wind and Architecture: Proceedings of the 24th International Conference on Passive Low Energy and Architecture 2007, Singapore: Department of Architecture, National University of Singapore, 2007.

- Tan, Beng Kiang, "Bioclimatic Skyscraper - Learning from Bawa". Clever Design, Affordable Comfort- 23rd International Conference on Passive and Low Energy Architecture Proceedings, ed. Raphael Compagnon, Peter Haefeli And Willi Weber (2006). Geneva: Université de Genève.
- Tan, Beng Kiang, "The Acceptable Visual Quality of Stereoscopic Virtual Reality Architectural Visualisation". CAADRIA2008: Beyond Computer-Aided Design, ed. Walaiporn Nakapan et al (2008): 579 - 586. Chiangmai: Pimniyom Press Co Ltd.
- Tan, Beng Kiang and JC Hii, "Integrating advanced shader technology for realistic architectural virtual reality visualisation". In Computer Aided Architectural Design Futures 2007, ed. Dong A, Moere A.V.and Gero J., Netherlands: Springer, 2007. 13 pp.
- Tan, Beng Kiang and JC Hii, "Optimising Realtime Virtual Reality Architecture Presentation". Digitization and Globalization, ed. Yu Gang, Zhou Qi and Dong Wei (2007): 599-606. Nanjing: Southeast and Nanjing University.
- TAN, Beng Kiang, "Intelligent Building and Application of IT in Architectural Practice Revenue House", in An Emancipated Place, ed. Brinda Somaya & Urvashi Mehta, pp. 70 -74. India: The HEACR Foundation, December 2000.
- Tan, Beng Kiang and Z L TAN, "Hybrid urban public space to enrich public life: Inspirations for seamless integration". 5th Great Asian Streets Symposium: A Public Forum of Asian Urban Design-Future Asian Space Proceedings, ed. Boontharm, Davisi et al (2008). Singapore: Centre for Advanced Studies in Architecture (CASA).
- Rahaman, H and B K Tan, "Interactive Space: Searching For A Dual Physical Virtual World". CAADRIA2009 Proceedings of the 14th International Conference on Computer Aided Architecture Design Research in Asia: Between Man and Machine, ed. TengWen Chang et al (2009): 675-684. Yunlin: National Yunlin University of Science and technology.
- Tan, Beng Kiang, eds., Singapore Architect. no. 241 (Thinking the New Learning-Scapes). (Singapore), 2007

PREVIOUS AND CURRENT RESEARCH GRANTS

- 2009 - 2012: Post Occupancy Evaluation of Greenmark Rated buildings in Singapore, MND research fund, key team member
- 2008 – 2010 POEM (Place-Oriented Embodied Media), NRF funded, Co-PI
- 2007: Pilot study of Green Schools in Singapore (NUS and MOE funded), Co-PI
- June 2005 – Mar 2008: Immersive visualization of tropical architecture – unbuilt & altered masterpieces of Geoffrey Bawa (NUS Academic Research Fund), PI

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