

CURRICULUM VITAE

NAME – SURNAME: Associate Professor Chalermwat Tantasavasdi
OFFICIAL ADDRESS: Faculty of Architecture and Planning
Thammasat University, Rangsit Campus
Pathumthani 12121, Thailand
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SPECIALIZATIONS: Building Science

EDUCATION:

DEGREE	MAJOR	UNIVERSITY	YEAR
Bachelor of Architecture (B. Arch)	Architecture	Chulalongkorn University, Thailand	1993
Master of Science in Architecture Studies (SMArchS)	Building Technology	Massachusetts Institute of Technology, USA	1998

TEACHING AND ADMINISTRATIVE EXPERIENCES:

2000-Present Faculty of Architecture and Planning, Thammasat University, Thailand
Current Position:
- Dean
- Director of the Sustainable Architecture Research Unit
Past Position:
- Associate Dean on Academic Affairs
- Managing Editor of the Journal of Architectural/Planning Research and Studies
- Head of the Architecture Program
- Chairperson of the Graduate Programs Committee
- Chairperson of the Educational Quality Assurance and Academic Standards Committee
2007 Thesis committee member, Faculty of Architecture, Chulalongkorn University, Thailand
1997, 2003 Guest critic, Faculty of Architecture, Kasetsart University, Thailand
2000 Guest critic, Faculty of Architecture, KMUTT, Thailand
1998 Teaching assistant, Massachusetts Institute of Technology, USA

RESEARCH:

Areas:

- Thermal science in architecture
- Energy-efficient and environmentally friendly design
- Passive cooling and natural ventilation
- Adaptive and flexible generic building design
- Sustainable development and design for climate change
- Indoor Air Quality

Research Title:

- Tantasavasdi, C., et. Al. (2013). Energy efficient and low cost house measurement and solar cell installment. (research fund from the National Housing Authority, Thailand)
- Tantasavasdi, C., et. Al. (2012). Solar energy as an alternative and renewable energy source for electricity production in the water treatment system of an NHA project. (research fund from the National Housing Authority, Thailand)
- Tantasavasdi, C., et. Al. (2011). Environmentally friendly innovation and finished goods applications to support NHA's future housing development business model. (research fund from the National Housing Authority, Thailand)
- Tantasavasdi, C., et. Al. (2011). Energy conservation measures in commercial buildings for climate change. (research fund from the Energy Policy and Planning Office, Thailand)
- Tantasavasdi, C., et. Al. (2010). The synthesis of knowledge related to the housing design and construction technology for application to NHA's projects. (research fund from the National Housing Authority, Thailand)
- Tantasavasdi, C., et. Al. (2010). Low-cost energy-efficient house for living in global warming conditions. (research fund from the National Housing Authority, Thailand)
- Tantasavasdi, C., & Jareemit, D. (2006). Guidelines for evaluation and design of natural ventilation for houses. (research fund from the Department of Alternative Energy Development and Efficiency, Thailand)
- Tantasavasdi, C., Sreshthaputra, A. & Yimprayoon, C. (2005). Creating design guidelines for safe and healthy buildings in Thailand. (research fund from the Commission on Higher Education, Thailand)
- Tantasavasdi, C., & Jareemit, D. (2005). Natural ventilation: Planning design guidelines for residential high-rises.
- Tantasavasdi, C., Srebric, J., & Chen, Q. (2001). Natural ventilation for suburban houses in Thailand.

PUBLICATIONS AND PRESENTATIONS***In Refereed Journal***

- Wankanapon, P., Chindapol, S., & Tantasavasdi, C. (2013). Environmental impact assessment for typical and innovative housing construction materials in Thailand. BUILT, 2, 43-53.
- Tantasavasdi, C., Chenvidyakarn, T., & Pichaisak, M. (2011). Integrative passive design for climate change: A new approach for tropical house design in the 21st century. BUILT, 1, 5-12.
- Tantasavasdi, C., Sreshthaputra, A., Suwanchaiskul, A., & Pichaisak, M. (2009). Predicting airflow in naturally-ventilated generic houses. Journal of Architectural/Planning Research and Studies, 6(1), 33-46.
- Tantasavasdi, C., Jareemit, D., Suwanchaiskul, A., & Naklada, T. (2008). Evaluation and design of natural ventilation for houses in Thailand. Journal of Architectural/Planning Research and Studies, 5(1), 85-98.

- Wanabongse, P., Srisuwan, T., Tantasavasdi, C., Boonyakiat, J., & Bavornkitti, S. (2007). การปล่อยแก๊สเรดอนจากวัสดุก่อสร้าง [Emission of radon gas from building materials]. Thammasat Medical Journal, 7(1), 19-22.
- Jareemit, D., Sreshthaputra, A., Yimprayoon, C., & Tantasavasdi, C. (2006). โรคระบบทางเดินหายใจ: ความเสี่ยงร้ายแรงจากการออกแบบและจัดการอาคารสำนักงานที่ไม่เหมาะสม [Respiratory disease: The fatal risk caused by inappropriate design & operation of office buildings]. Journal of Architectural/Planning Research and Studies, 4(2), 3-19.
- Tantasavasdi, C., & Jareemit, D. (2005). การระบายอากาศโดยวิธีธรรมชาติ: แนวทางการออกแบบผังอาคารชุดพักอาศัยประเภทอาคารสูง [Natural ventilation: Planning design guidelines for residential high-rises]. Journal of Architectural/Planning Research and Studies, 3, 23-36.
- Tantasavasdi, C. (2002). การคำนวณพลศาสตร์ของไหลเพื่อการออกแบบการระบายอากาศโดยวิธีธรรมชาติ: แนวทางสำหรับบ้านในประเทศไทย [CFD approach towards natural ventilation design: Guidelines for houses in Thailand]. Journal of Architectural Research and Studies, 1, 45-63.
- Tantasavasdi, C., Srebric, J., & Chen, Q. (2001). Natural ventilation for suburban houses in Thailand. Energy and Buildings, 33, 815-824.

In Refereed Conference Proceedings

- Tienchutima, C., Chungloo, S., Tantasavasdi, C., & Srisutapan, A. (2009). A design guideline for high-rise condominium with natural ventilation. Proceedings of ISACS 2009 Symposium [CD-ROM]. Chiang Mai, Thailand.
- Wongwatcharapaiboon, J., Sreshthaputra, A., Tantasavasdi, C., Jareemit, D., & Chungloo, S. (2008). ประสิทธิภาพของปล่องแสงอาทิตย์ [Efficiency of solar chimney]. Proceedings of the 4th Conference on Network of Thailand [CD-ROM]. Nakornpathom, Thailand.
- Tantasavasdi, C., Jareemit, D., Suwanchaiskul, A., & Naklada, T. (2007). Natural ventilation: Evaluation and design of houses in Thailand. Proceedings of the 3rd Conference on Network of Thailand [CD-ROM]. Bangkok, Thailand.
- Tantasavasdi, C. (2003). Water: Element for physical and psychological cooling in modern Thai architecture. In R. King, O. Panin, & C. Parin (Eds.), Proceedings of an International Symposium, (pp. 249-255). Bangkok, Thailand: Kasetsart University Press.

In Conference Proceedings

- Tantasavasdi, C., Srebric, J., & Chen, Q. (2001). CFD: A tool for innovative natural ventilation design for houses in Thailand. Proceedings of the Fourth International Symposium on Asia Pacific Architecture. Hawai'i: University of Hawai'i at Manoa, 161-174.

Other Publications

- Tantasavasdi, C. (2011). การออกแบบที่พึ่งพาธรรมชาติเพื่อรองรับการเปลี่ยนแปลงทางสภาพภูมิอากาศ: โรงเรียนอนุรักษ์พลังงานแห่งอนาคต [Passive design for climate change: Future energy efficient]. Pathumthani, Thailand: Thammasat University.

- Tantasavasdi, C. (2008). การออกแบบโดยวิธีธรรมชาติและแนวความคิดอาคารสีเขียว [Passive design and green building concept]. ASA, 10:51-11:51, 92-99. Bangkok, Thailand: Association of Siamese Architects.
- Tantasavasdi, C., & Arkaraprasertkul, N. (Eds.). (2004). Architectural engineering: Towards practical integration. Bangkok, Thailand: Conform.
- Tantasavasdi, C. (2004). เครื่องช่วย (สลาย) ฝันสถาปนิก: การคำนวณพลศาสตร์ของไหล [Eliminating architects' (day) dream: Computational fluid dynamic]. Pleasant Built. Bangkok, Thailand: Association of Siamese Architects, 8-1 – 8-10.

PROFESSIONAL EXPERIENCES:

Architectural Design and Consultation

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| 2014 | Energy Consultant for Central Eastville Outdoor Shopping Mall project, Bangkok, Thailand |
| 2008-2009 | Head of the consulting team, Energy-efficient and Environmentally Friendly Buildings Labeling Project, Department of Alternative Energy Development and Efficiency (DEDE), Thailand |
| 2008 | Consultant on developing passive systems in Central Srinakarin Shopping Mall project, Bangkok, Thailand |
| 2008 | Architect, a sustainable house in Bangkok, Thailand |
| 1999-2000 | Architect, Hewitt Architects, Seattle, USA |
| 1996 | Architect, an energy-efficient house in Bangkok, Thailand |
| 1993-1995 | Architect, Terra Co. Ltd., Bangkok, Thailand |

Academic and Public Services

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| 2009-Present | Reviewer of a renowned international journal 'Buildings and Environment' |
| 2008-present | Member of the Academic Committee on Building and Environmental Technology, Association of Siamese Architects |
| 2008-present | Member of the Architecture Professional Examination Committee, Architect Council |
| 2009 | Public lecture in the topic of "Experience from Thai Journal Undertaking and Guidelines to Upgrade to International Level", arranged by Thai-Journal Citation Index Centre (TCI) |
| 2008 | Public lecture in the topic of "Natural Systems and Renewable Energy for Residential Buildings" for the training program of the Department of Alternative Energy Development and Efficiency (DEDE), Thailand |
| 2008 | Advisor in the area of creating criteria for environmental management in green buildings, Pollution Control Department, Thailand |
| 2007-2009 | Judge of the Energy-efficient and Environmentally Friendly Buildings Labeling Project, Department of Alternative Energy Development and Efficiency (DEDE), Thailand |
| 2005-007 | Judge of the Best Energy-efficient House Competition, Department of Alternative Energy Development and Efficiency (DEDE), Thailand |

2005	Public lecture in the topic of “Nature Discourse: People, Technology, and Architecture” at The Pennsylvania State University, USA
2004	Advisor of the Number-5 House Project and judge of the Energy-efficient House Design Competition, Electricity Generating Authority of Thailand (EGAT)
2003	Advisor in building envelope and energy management areas of the Building Energy Code Development Project, Department of Alternative Energy Development and Efficiency (DEDE), Thailand
2003	Member of the Committee of Mass Transit Planning and Management, Thammasat University, Rangsit Campus, Thailand
2003	Public lecture in the topic of “Energy Conservation in Buildings” for architect interns, Association of Siamese Architects
2003	Guest moderator of a paper presentation session in the First National Architectural Symposium ‘Innovation’, Kasetsart University, Thailand
2001	Judge of the Energy-efficient Townhouse and Sun-shading Element Design Competition, National Energy Policy Office (NEPO), Thailand
2000	Member of the Committee of National Architectural Entrance Exam, Ministry of University, Thailand

AWARDS AND HONORS:

2009	Best Annual Research Article Award from the Journal of Architectural/Planning Research and Studies (JARS)
2005-2009	Honorable award for public services from the Minister of Energy, Thailand