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Specializations

- Environmental Technology
- Sustainable Energy
- Indoor Air Quality
- Particulate Matter (PM2.5)
- Natural Ventilation

Educations

- PhD in Sustainable Energy Technology, University of Nottingham, United Kingdom, 2017
- Master of Architecture (Building Technology), Thammasat University, Thailand, 2008
- Bachelor of Science (Architecture), Thammasat University, Thailand, 2006

Professional Experience

- Assistant Dean of Graduate Studies, Faculty of Architecture and Planning, Thammasat University (2021-2024)
- Director of Design Business Technology Management Program, Faculty of Architecture and Planning, Thammasat University (2019-2021)
- Associate Director of Design Business Technology Management Program, Faculty of Architecture and Planning, Thammasat University (2019)
- Lecturer, Design Business Technology Management Program, Faculty of Architecture and Planning, Thammasat University (2017 - Present)
- Head of Research and Development Department, Krajokrunpetch, Co, Ltd (2017 - Present)
- Head of Researcher in "Creative Waste Innovation Hub in Thailand" (2018 - 2019)
- Researcher of Energy Efficiency in Residential Buildings Projects (2009-2010)
- Assistant Consultant of Natural Ventilation, Lighting and Green Buildings Evaluation for Energy Efficiency (2006-2008)

Publications

- Wongwatcharapaiboon, J., Thienthaworn, A., & Budiwan, A. P. (2024). Reflective Keys of Integrative Research Studies in A Graduate Design Management Program, Thailand. *Journal of Architectural/Planning Research and Studies (JARS)*, 21(1).
- Irvine, K. N., Suwanarit, A., Likitswat, F., Srilertchaipanij, H., Sahavacharin, A., Wongwatcharapaiboon, J., . . . Janpathompong, S. (2023). Nature-based solutions to enhance urban flood resiliency: case study of a Thailand Smart District. *Sustainable Water Resources Management*, 9(43(2023)), 1-23.

Publications (Cont.)

- Irvine, K., Suwanarit, A., Likitswat, F., Srilertchaipanij, H., Ingegno, M., Kaewlai, P., . . . Wongwatcharapaiboon, J. (2022). Smart City Thailand: Visioning and design to enhance sustainability, resiliency, and community wellbeing. *Urban Science*, 6(1), 7.
- Teang, L. , Wongwatcharapaiboon, J. , Irvine, K. , Jamieson, I. , & Rinchumphu, D. (2021). Modelling the impact of water sensitive urban design on pluvial flood management in a tropical climate. Paper presented at the 12th Built Environment Research Associates Conference, BERAC2021.
- Wongwatcharapaiboon, J. (2020). Circular Economy: Case Studies in Upcycled Industrial Waste Glass in Thailand. Paper presented at the The 6th International and National Conference on Green ASIA and Sustainability Forum 2020.
- Wongwatcharapaiboon, J. (2020). Toward future particulate matter situations in Thailand from supporting policy, network and economy. *Future Cities and Environment*, 6, 1-1.
- Wongwatcharapaiboon, J., Gan, G., & Riffat, S. B. (2019). A new air PM2.5 filtrative lamp with a combination of fabric filter and TiO2 coating mop. *International Journal of Low-Carbon Technologies*, 14(3), 394-399.
- Wongwatcharapaiboon, J. 2019. Interrelating Factors of Promoting and Learning Sustainability in University Classes at Thammasat University, Thailand. In: 10th Built Environment Research Associates Conference, BERAC2019, 25th June 2019 Bangkok Art and Culture Centre (BACC). Thammasat Design School.
- Wongwatcharapaiboon, J., Gan, G. & Riffat, S. B. 2019. A new air PM2.5 filtrative lamp with a combination of fabric filter and TiO2 coating mop. *International Journal of Low-Carbon Technologies*.
- Wongwatcharapaiboon, J 2017, 'Experimental investigations of indoor air particular matter in hot and humid climates'. PhD thesis, University of Nottingham, UK.
- Wongwatcharapaiboon, J., Gan, G. & Riffat, S. B. 2014. Monitoring of PM2.5 concentrations in residential and office buildings in Shanghai. *13th International Conference on Sustainable Energy technologies (SET2014)*. Geneva, Switzerland.
- Wongwatcharapaiboon, J., Gan, G. & Riffat, S. B. 2013. A Critical Review of Indoor Air Quality in Hot and Humid Climate. *12th International Conference on Sustainable Energy technologies (SET2013)*. Hongkong, China.
- จิฐิพร วงศ์วัชรไพบูลย์, อรรถจัน เศรษฐบุตตร, เฉลิมวัฒน์ ตันตสวัสดิ์, ดารณี จารีมิตร, & สุดาภรณ์ ฉิ่งลู่. (2551). ประสิทธิภาพการระบายอากาศของปล่องแสงอาทิตย์. *เอกสารที่ประชุมวิชาการเครือข่ายพลังงานแห่งประเทศไทย ครั้งที่ 4*. นครปฐม.
- จิฐิพร วงศ์วัชรไพบูลย์, อรรถจัน เศรษฐบุตตร, เฉลิมวัฒน์ ตันตสวัสดิ์, ดารณี จารีมิตร, & สุดาภรณ์ ฉิ่งลู่. (2552). ศักยภาพการระบายอากาศของปล่องแสงอาทิตย์. *วารสารวิจัยพลังงาน*, 6(1), 92-105.

Professional Projects

- “Creative Waste Innovation Hub in Thailand” Cross-disciplinary Project between Thammasat University and University of Cambridge by Newton Fund (2018 - 2019)
- “The Research of Energy Efficiency for Low Cost Residential Buildings within Climatic Conditions” Project by National Housing Authority (2009-2010)
- “Synthesizing Knowledge of Architectural Design and Technology in Residential Building” Project by National Housing Authority (2009-2010)
- “Green Building Benchmark in Thailand” project by Department of Alternative Energy Development and Efficiency (2008-2009)
- Natural Ventilation and Lighting Evaluation for Plamer & Turner (Thailand) Ltd and the project of HOMEWORK (Bangbuathong) by M.A.A.R Co, Ltd (2008)
- Natural Ventilation Evaluation for Central Plaza, Srinakarin (2008)
- LEED- Green Building Evaluation for Ngenma, Co, Ltd (2006)