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Work Experience

Education

- 1997: Bachelor of Science (Public Health), Major in Sanitary Science, Mahidol University.
- 2011: Doctor of Philosophy (Environmental Technology), Mahidol University.

Scholarship

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Course Taught

- **M.Sc. (Environmental Health)**
 - PHEH 610 Water and Wastewater Management and Sanitation
 - PHEH 646 Industrial Wastewater Management
 - PHEH 660 Environmental Health Management in Emergencies and Disasters
 - PHEH 671 Principles of environmental health
 - PHEH 673 Environmental Monitoring and Analysis
 - PHEH 674 Environmental and Health Impact Assessment
 - PHEH 684 Technologies and Eco-innovation towards Sustainability
 - PHEH 686 Sewage and Solid Waste Disposal Technology
- **B.Sc. (Environmental Health)**
 - PHEH 204 Principles of Environmental and Occupational Health
 - PHEH 327 Sanitation for Drinking Water, Water Supply, and Ice
 - PHEH 319 Sustainable Sewage and Solid Waste Management
 - PHEH 321 Environmental Sanitation Management for Residential Buildings and Public Spaces
 - PHEH 420 Principles of Environmental Impact and Health Risk Assessment
 - PHEH 449 Water Pollution Controls and Wastewater Treatment Technology
 - PHEH 469 Water Chemistry and Wastewater Analysis
 - PHEH 487 Field Practice on Community Sanitation and Appropriated Technology
- **B.Sc. (Public Health)**
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Research Interests

- Biological Wastewater Treatment and Nutrient Recovery
- Water and Wastewater Analysis
- Environmental sanitation technology

Awards

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Trainings

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Selected Journal Articles

- 1) Surussinee Buayoungyuen, Chaowalit Warodomrunsimun, Manunart Feungpean, Prayoon Fongsatitkul. Anaerobic Sequencing Batch Reactor (AnA2/O2 SBR) under a Short Cycle Time and SRTs in Treating Slaughterhouse Wastewater. Asian Journal of Public Health 2016. Vol.7 No.1
- 2) Janthai, K., Warodomrunsimun, C., Singhakant, C.. Decolorization of basic and direct dyes by adsorption on chemically modified rice husk. Interdisciplinary Research Review, 2017. 12(1), 35-42.
- 3) Chaowalit Warodomrunsimun, Withida Patthanaissaranukool, Surussinee Buayoungyuen, Prayoon Fongsatitkul. Performance and Kinetics of the treating Slaughterhouses Wastewater Using Sequencing Batch Reactor. Naresuan University Journal: Science and Technology 2019. 27(1): 87-97
- 4) Muennarin N., Warodomrunsimun C., Prechthai T. Leaching Potential of Heavy Metals and Toxicity of Sediment in Leachate Treatment Ponds of Municipal Solid Waste Disposal Sites. Journal of Public Health 2019; .31-19 :(1)49
- 5) Patthanaissaranukool W, Fongsatitkul P, Warodomrunsimun C. Environmental health professionals in developed countries. EnvironmentAsia 2020; 13(1):123-112
- 6) Buayoungyuen S, Panyapinyopol B, Fongsatitkul P, Patthanaissaranukool W, Warodomrunsimun C. Simultaneous Removal of Nitrogen, Phosphorus, and Organic Matter from Slaughterhouse Wastewater Using AnA2/O2 SBR and Its Economic Benefits. EnvironmentAsia 2022; 15(1): 33-46, DOI: 10.14456/ea.2022.4
- 7). Suwannasin, S., Sreesai, S., Warodomrunsimun, C., Singhakant, C., & Magun, W. (2024). Reduction and regrowth of total coliform bacteria, fecal coliform bacteria, and E. coli after chlorine and peracetic acid disinfection in the hospital effluent. ScienceAsia, 50(1), 2024026.

Selected Proceeding Papers

- 1) Chanmalee, S., Vatanasomboon, P., Warodomrunsimun, C. (2016). Adsorption of Pb (II) from synthetic solution by pomelo peel. In The Asian Conference on Sustainability, Energy & the Environment (pp. 1-9).
- 2) Siriluck Pinvattanachai, Withida Patthanaissaranukool, Chaowalit Warodomrunsimun. Effect of SRT on the Nutrient Removal and Phosphorus Accumulation in Sludge Using AnA2/O2 SBR Treating Slaughterhouse Wastewater. The 5th EnvironmentAsia International Conference:Transboundary Environment Nexus: From Local to Regional Perspectives; 13-15 JUNE 2019, Convention Center, The Empress Hotel, Chiang Mai, Thailand
- 3) Manasawan Worralakkulwong, Tawach Prechthai, Withida Patthanaissaranukool, Chaowalit Warodomrunsimun. Bio-fertilizer Production from the Spent Mushroom Substrate with Waste-Activated Sludge. In Proceedings of the Conference on The Role and

Challenges of Environmental Health in National Development; 2022 October 8; Bangkok Thailand. Center of Excellence on Environmental Health and Toxicology; 2022. p. 89-95.

- 4). Siriapa Fakhum, Chaowalit Warodomrungsimun, Withida Patthanaissaranukool, Chatchawal singhakant and Supawadee Polprasert. Impact Assessment of Slaughterhouse Wastewater and Sludge Treatment using AnA2/O2 SBR and Anaerobic Sludge Digester System: A Pilot-Scale Study. In Proceedings of the Conference on Trends in Environmental Health; 2023 November 25; Bangkok Thailand. Center of Excellence on Environmental Health and Toxicology; 2023. p. 132-137.
- 5) Anuttara Sukkhapan, Chaowalit Warodomrungsimun, Withida Patthanaissaranukool, Chatchawal singhakant, Supawadee Polprasert. Carbon Footprint Assessment of Baked and Fried Snack Products Using a Life Cycle Approach. In Proceedings of the Conference on Highlighting Environmental Health Issues: Research towards Solutions; 2025 September 20th ; Convention Center, Chulabhorn Research Institute, Bangkok Thailand.

Academic Research Projects and Responsibilities

2013-2014	1) Co-researcher; Environmental Health Risk Assessment from Agricultural Chemical Use in Highland Areas: A Case Study of Khao Kho District, Phetchabun Province (Agricultural Research Development Grant, Agricultural Research Development Agency (Public Organization))
2014-2015	1) Working Group Member; Bangkok Clean and Green Project
2016	1) Working Group Member; Study of Nuisance Standards under the Public Health Act B.E. 2535 (Department of Health, Ministry of Public Health)
2017-2018	1) Researcher; Factors Effecting to Phosphorus Release and Struvite Precipitation from Sludge Biomass Using AnA2/O2 SBR and Anaerobic Sludge Digester Treating Slaughterhouse Wastewater (Research Grant from the Center of Excellence in Environmental Health and Toxicology)
2019-2020	1) Principal Investigator: Factors affecting phosphorus release and struvite crystallization from biosludge using an AnA2/O2 SBR system and anaerobic sludge digester in slaughterhouse wastewater treatment (Research grant from the Center of Excellence in Environmental Health and Toxicology). 2) Co-researcher, Research project on the development of environmental health innovations and technologies for healthy communities (Funding from the Department of Health, Ministry of Public Health).
2020-2022	1) Principal Investigator: Project “Environmental Friendly Liquid Biofertilizer and Struvite Slow Release Fertilizer Production from Wastewater and Sludge Treatment from Slaughterhouse Wastewater” (Research grant from the Center of Excellence in Environmental Health and Toxicology). 2) Co-researcher, Project “Development of a database system and appropriate infectious waste management technology for Thailand” (Funding from the National Research Council).