Department of Sanitary Engineering

รศ.ดร.จงจินต์ ผลประเสริฐ

CHONGCHIN POLPRASERT, Ph.D.

Position: Associate Professor
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Education

Ph.D.(Environmental Engineering), Illinois Institute of Technology, USA
M.Eng.(Environmental Engineering), Asian Institute of Technology, Thailand
B.Eng. (Environmental Engineering), Chiangmai University, Thailand

Expertise

1.Biochemical Engineering – Application of mathematical modeling to biological processes and biological waste treatment
2.Water Chemistry – Fundamental and advanced principles of environmental chemistry; its application to water and wastewater treatment engineering
3.Pollutant Transport – Movement of chemical in air, water, and soil

Research Interests and Field of Specialization

Biological process
Waste recovery and recycling
Application of carbon-balanced model for sustainable development

Selected Publications:

YadaPinatha, **ChongchinPolprasert** and Andrew J. Englande (2017), Adsorption onto Ash Particles and Common Ion Effect for Phosphorus Recovery from Urinal Wastewater, *GMSARN International Journal*, 11, 33-44.

BussarakamThitanuwat, **ChongchinPolprasert** and Andrew J. Englande (2017), Green residues from Bangkok green space for renewable energy recovery, phosphorus recycling and greenhouse gases emission reduction; *Waste Management*, 61, 572-581. (Impact Factor: 4.030)

NuchnapaPrathumchai, **ChongchinPolprasert** and Andrew J. Englande (2016), Phosphorus leakage from fisheries sector – A case study in Thailand; *Environmental Pollution*, 219, 967-975. (Impact Factor: 4.839)

WithidaPatthanaissaranukool and **ChongchinPolprasert** (2016), Reducing carbon emissions from soybean cultivation to oil production in Thailand; *Journal of Cleaner Production*, 131, 170 – 178. (Impact Factor: 4.959)

ThanakritNeamhom, **ChongchinPolprasert** and Andrew J. Englande (2016), Ways that sugarcane industry can help reduce carbon emissions in Thailand; *Journal of Cleaner Production*, 131, 561 – 571. (Impact Factor: 4.959)

BussarakamThitanuwat, **ChongchinPolprasert**, Andrew J. EnglandeJr (2016). Quantification of phosphorus flows throughout the consumption system of Bangkok Metropolis, Thailand; *Science of the Total Environment*, 542, 1106 – 1116.(Impact Factor: 4.900)

NuchnapaPrathumchai, SupawadeePolprasert, and **ChongchinPolprasert** (2016), Evaluation of Phosphorus Flows in Agricultural Sector of Thailand, *GMSARN International Journal*, 10, 163-170.

WeerapongHanrinth and **ChongchinPolprasert** (2016), Phosphorus Recovery from Co-composting of Faecal Sludge and Fresh Food Market Waste, *GMSARN International Journal*, 10, 171-174.

BussarakamThitanuwat and **ChongchinPolprasert** (2016), Contribution of Green Garbage to Energy Production in Municipal Solid Waste Management, *GMSARN International Journal*, 10, 175-180.

ThanakritNeamhom, WithidaPatthanaissaranukool, and**ChongchinPolprasert** (2016), Evaluation of Carbon Equivalences in Ethanol Production from Energy Crops in Thailand, *GMSARN International Journal*, 10, 171-174.

ChongchinPolprasert, WithidaPatthanaissaranukool, Andrew J. EnglandeJr (2015). A choice between RBD (refined, bleached, and deodorized) palm olein and palm methyl ester productions from carbon movement categorization; *Energy*, 88, 610 – 620.(Impact Factor: 4.292)

WithidaPatthanaissaranukool, **ChongchinPolprasert**, Andrew J. EnglandeJr (2013). Potential reduction of carbon emissions from Crude Palm Oil production based on energy and carbon balances; *Applied Energy*, 102, 710 – 717.(Impact Factor: 5.746)

KampolNanthapongand **Chongchin Polprasert**(2013); Carbon balance in municipal solid waste management – A case study of Nonthaburi municipality, Thailand; *Journalof the MedicalAssociation of Thailand*, 96 (suppl. 5): S190 – S197.

WithidaPatthanaissaranukool and **Chongchin Polprasert** (2011), Carbon mobilization in oil palm plantation and milling based on a carbon-balanced model – A case study in Thailand;*Environment Asia*, 4(2), 17-26.

ThaneeyaPerbangkhem, DoulayeKone and **ChongchinPolprasert** (2011), EmergyDistribution in Oxidation Pond and Constructed Wetland treating a Domestic Wastewater, *Australian Journal of Basic and Applied Sciences*, 5(7), 430 – 439.

ThaneeyaPerbangkhem, ChongchinPolprasert (2010). Biomass production of papyrus (Cyperus papyrus) in constructed wetland treating low-strength domestic wastewater.*Bioresource Technology*, 101 (January): 833 – 835.(Impact Factor: 4.365)

YuwadeeChaiyachet and **Chongchin Polprasert** (2009). Investigation of Carbon Equivalence and Land Requirement for Rice Cultivation – A Case Study in Thailand, *Journal of Applied Sciences Research*, 5(12), 2489 – 2495.

ChongchinPolprasert and YuwadeeChaiyachet (2007); Biological Potential – A concept for sustainable development based on a carbon-balanced model, GMSARN International Conference on Sustainable Development: Challenges and Opportunities for GMS, 12 – 14 December 2007, Pattaya, Thailand.

ChongchinPolprasert and ThaneeyaPerbangkhem (2006); Energy Capturing Efficiency and Productivity of Papyrus (*Cyperus Papyrus*) in Constructed Wetland Treating Domestic Wastewater; Proceedings of The 7th IWA Specialist Conference on Waste Stabilization Ponds, September 25-27, 2006, Bangkok, Thailand.