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1. Education Background

2006-2013 Ph.D. (Environmental Science)

Department of Environmental Science, Faculty of Environment, Kasetsart University, Bangkok, Thailand.

Thesis Topic: Natural Phenomena of Solar Radiation to Reduce Coliform and Pathogenic Bacteria in Oxidation Pond for Wastewater Treatment System

2002-2005 M.Sc. (Environmental Science)

Department of Environmental Science, Faculty of Environment, Kasetsart University, Bangkok, Thailand.

Thesis Topic: Study on Rhizobacterium in *Canna indica* Linn., *Heliconia psittacorum* Linn. and *Alpinia purpurata* (Vieill.) K. Schum. effect to Municipal Wastewater Treatment Efficiency Muang District, Phetchaburi Province

1998-2001 B.Sc. (Environmental Science)

Department of Environmental Science, Faculty of Resources and Environment, Kasetsart University, Si Rhacha Champus, Chonburi, Thailand.

Research Topic: Quality of Coliform Bacteria at Bang Sean Beach, Chonburi, Thailand.

2. Job Experiences

2015-Present Lecturer, Department of Environmental Science, Faculty of Environment, Kasetsart University

2005-2015 Researcher, The King's Royally Initiative Laem Phak Bia Environmental Research and Development Project, Laem Phak Bia Sub-District, Ban Laem District, Phetchburi Province under Chaipattana Foundation.

3. Research

1) Effect of Solar Radiation to Reduce Coliform and Pathogenic Bacteria in Oxidation Pond for Wastewater Treatment System

2) Relation of Rhizobacterium in *Canna indica* Linn., *Heliconia psittacorum* Linn. and *Alpinia purpurata* (Vieill.) K. Schum. effect to Municipal Wastewater Treatment Efficiency Muang District, Phetchaburi Province

3) Research Development on Royal Initiative's Projects of Community Garbage Disposal and Wastewater Treatment for Extension to Local Needs.

4) Development of Community Wastewater Treatment Techniques Under The King's Initiatives to Increase the Industrial Wastewater Treatment Efficiency from Production Processes of Ethylene Oxide and Ethylene Glycol

5) An additional Efficiency of Wastewater Treatment From Beverage Production Plant of ThaiAsia Pacific Brewery Co., Ltd. By the King Initiative's Project on Nature- by-Nature Process.

6) Development of Community Wastewater Treatment Techniques Under The King's Initiatives to Increase the Household Industry Wastewater Treatment Efficiency From Production Processes of Pla Som Cookery Wastewater

7) Dynamic of Cyanobacteria in Oxidation Pond for Wastewater Treatment System of The King Initiative's Project on Nature- by-Nature Process.

4. Seminar/Symposium Organization

- 2006** Field Study on Water Management and Urban Planning, Malaysia and Singapore.
- 2007** Field Study on Environmental Technology and Management, Tokyo, Japan.
(14-19 May 2007)
- 2014** 5th International Conference on Biotechnology for the Wellness Industry "Wellness for Health and Productivity New Trend and Opportunities" University Technology Malaysia, Kuala Lumpur, Malaysia. (10-11 June 2014)
- 2015** The 1st International Conference on Environment, Livelihood, and Services: Environment for Life (ICELS 2015) The Centara Grand and Bangkok Convention Center at Central World, Bangkok, Thailand (2-5 November, 2015)
- 2016** - The ICEWRM 2016 : 18th International Conference on Environment and Water Resource Management, Tokyo, Japan (26-27 May, 2016)
- The international conference on biotechnology for the wellness industry (6th ICBWI 2016) Hotel Equatorial Melaka, Malaysia. (15-17 August, 2016)
- 2017** Environment field study, South Korea. (7-11 February 2017)
- 2018** - The Proceeding of 33rd International Conference on Solid Waste Technology and Management, , The Westin Annapolis Hotel, Annapolis, USA. (11-14 March 2018)
- Field Study on Environmental Management (Renew City), Malaysia and Singapore. (26-30 March 2018)

5. Publication

2021

- Maskulrath, P., S. Bualert, K. Chunkao, T. Jinjaruk, T. Pattamapitoon, W. Wararam, W.W. Szymanski. 2021. Enhancing High-Concentrated Wastewater Quality on Evaporation Rate from Five-Consecutive Oxidation Ponds as Located in Phetchaburi, Southerly Thailand. **Applied Environment Research**. 43 (1): Jan-Mar, DOI: 10.35762/AER.2021.43.1.9
- Pattamapitoon, T., W. Wararam, P. Wichittrakarn and C. Soeihom. 2021. Available UV Killing *Escherichia coli* in Oxidation Ponds for Community Wastewater Treatment. **Eco. Env. & Cons.** **XX: XXXXXX**, ISSN 0971-765X
- Thongwanitniyom, S., T. Pattamapitoon and N. Maneemueang. 2021. Production of Calcium Oxide from Waste Oyster Shells for a Value-Added Application of Antibacteria. **Eco. Env. & Cons.** **XX: XXXXXX**, ISSN 0971-765X
- Tudsanaton, C. T. Pattamapitoon, O. Phewnil, N. Semvimol, W. Wararam, C. Chanthasoon and S. Thaipakdee. 2021. Limiting Factor of Durian Rind Composting by Natural Technology During the Wet Period. **Eco. Env. & Cons.** **XX: XXXXXX**, ISSN 0971-765X
- Wararam, W., T. Pattamapitoon, O. Phewnil, N. Semvimol, K. Chunkao, T. Jinjarak, K. Angchanpen, P. Wichittrakarn and P. Maskulrath. 2021. Treatment Efficiency of High Organic-Concentration Wastewater from Pla-Som Production by Combine Treatment System. **Eco. Env. & Cons.** **XX: XXXXXX**, ISSN 0971-765X

2020

- Buaprom, S., N. Semvimol, O. Phewnil and T. Pattamapitoon. 2020. The Effect of Using Compost as Cover Materials in Organic Waste Composting. **The 17th National Kasetsart University Kamphaeng Saen Conference, 2-3 December 2020**, Thailand.
- Moolkambil, W., N. Semvimol, T. Pattamapitoon and O. Phewnil. 2020. The Efficiency of Household Composter. **The 17th National Kasetsart University Kamphaeng Saen Conference, 2-3 December 2020**, Thailand.
- Panthong P., T. Pattamapitoon and K. Chunkao. 2020. Effect of Emergency Drainage from Phetchaburi Dam on Phetchaburi River Water Quality. **KKU Research Journal (Graduate Studies)**. 20 (1): January-March, ISSN 2672-9636.
- Phadpin A., T. Pattamapitoon and K. Chunkao. 2020. Bacterial Communities as Induced by Volatile Gases Releasing from Organic Compounds in Food Wastes and Bio-Wastes In Bangkok, Thailand. **Ecology, Environment and Conservation**. August Supplement Issue, ISSN: 0971-765X
- Srichomphu, M., T. Pattamapitoon, O. Phewnil, K. Chunkao and C. Chanthasoon. 2020. Optimal Sampling Interval for Qualitative Analysis of Phytoplankton on Community Wastewater. **The 17th National Kasetsart University Kamphaeng Saen Conference, 2-3 December 2020**, Thailand.
- Tudsanaton, C., T. Pattamapitoon, O. Phewnil and N. Semvimol. 2020. The changes of number and genus of bacteria in leachate from Durian rind and possibility for agricultural purpose. **The 17th National Kasetsart University Kamphaeng Saen Conference, 2-3 December 2020**, Thailand.

Wongsrikaew, O., T. Pattamapitooon and N. Semvimol. 2020. Long-term Performance Evaluation Constructed Wetland for Community Wastewater Treatment. **The 17th National Kasetsart University Kamphaeng Saen Conference, 2-3 December 2020**, Thailand.

2019

Angchanpen K., T. Pattamapitooon, W. Wararam, O. Phewnil, K. Chunkao. 2019. The Added Benefit from Wastewater Treatment in Pla-Som Production. **The 10th World Environmental Education Congress**, 4-7 November 2019, Bangkok, Thailand.

Krutta K., O. Phewnil, T. Pattamapitooon, N. Semvimol, C. Chanthasoon and S. Thaipakdee. 2019. Utilization Possibility of Leachate from Durian Rind Composting for Growing Eatable Plants. **The 10th World Environmental Education Congress**, 4-7 November 2019, Bangkok, Thailand.

Nachaiboon U., O. Phewnil, T. Pattamapitooon, S. Boonmang, S. Thaipakdee. 2019. Knowledge Transferring of Wastewater Treatment by Constructed Wetland in Watthamajariya School, Phra Nakhon Si Ayutthaya, Thailand. **The 10th World Environmental Education Congress**, 4-7 November 2019, Bangkok, Thailand.

Noikondee R., K. Chunkao, S. Bualert and T. Pattamapitooon. 2019. Evaluation of Dissolved Oxygen Stratification in an Oxidation Pond for Community Wastewater Treatment through King's Royally Initiated "Nature by Nature" Process. **EnvironmentAsia**. 12 (1), Pages 169-177. DOI 10.14456/ea.2019.19, ONLINE ISSN: 2586-8861

Srichomphu M., O. Phewnil, K. Chunkao, T. Pattamapitooon, D. Subwongrod, P. Wichittrakarn, S. Thaipakdee, U. Nachaiboon, P. Maskulrath. 2019. Knowledge Transfer Technique of Oxygen Addition from Phytoplankton Photosynthesis for Domestic wastewater Treatment Through Oxidation Pond. **The 10th World Environmental Education Congress**, 4-7 November 2019, Bangkok, Thailand.

Sukchinda S., S. Bualert, O. Phewnil, T. Pattamapitooon and M. Srichomphu. 2019. Effect of Solar Radiation on Cyanobacteria Bloom in Oxidation Ponds Community Wastewater Treatment at The King's Royally Initiated Laem Phak Bia Environmental Research and Development Project, Phetchaburi, Thailand. **EnvironmentAsia**. 12(3): Pages 54-61, DOI 10.14456/ea2019.45

Tudsanaton C., T. Pattamapitooon, O. Phewnil and N. Semvimol. 2019. Microbial Phenomena of Natural Composting in Raining Season. **The 10th World Environmental Education Congress**, 4-7 November 2019, Bangkok, Thailand.

2018

Charoensuntisuk N., K. Chunkao, O. Phewnil and T. Pattamapitooon. 2018. Residual Chlorine and Effect of Residual Chlorine on Reduction of Bacteria in Wastewater from Fish Landing Site. **Journal of Science and Technology, Ubon Ratchathani University**. 20(2): May-August, Pages 79-91, ISSN 1685-7941.

Chunkao K., T. Pattamapitooon, C. Chanthasoon, S. Bualert, A. Taychitkunanon, N. Vongsawan and S. Mokatiip. 2018. King Bhumibol's Royally Initiative Nature-by-Nature Process for Activating Digestion Period in Municipal Garbage Composting, **The 33rd International Conference on Solid Waste Technology and Management**, 10-14 March 2018, Annapolis, MD, USA.

Jinjaruk T., K. Chumkao, K. Pongput, C. Choeihom, T. Pattamapitooon, W. Wararam,

S. Thaipakdee, M. Srichomphu and P. Maskulrath. 2018. HDPE Pipeline Length for Conditioning Anaerobic Process to Decrease BOD in Municipal Wastewater. **EnvironmentAsia**. 11 (1): 31-44, DOI: 10.14456/ea.2018.3.

Lamprom W., K. Chunkao, I. Rasriekreangkrai, T. Pattamapitton, A. Intraraksa and W. Wararam. 2018. The Study of the Effects of Population Change at Riverbanks's Communities Toward the Quality of Water at Phetchaburi River in 10 Years (2006-2015). **Dusit Thani College Journal**. 12(3): September-December, Pages 548-568, ISSN 1906-070X.

Maskulrath P., S. Bualert, K. Chunkao, T. Jinjaruk, T. Pattamapitton and W. Wararam. 2018. Determining Actual Evaporation Rates of wastewater oxidation pond surface of The King's Royally Initiated Laem Phak Bia Environmental Research and Development Projec. **The 2nd International Conference on Environment, Livelihood and Services (ICELS 2018)**. 19 -22 November 2018, Bangkok, Thailand.

Wararam W., K. Angchanpen, T. Pattamapitton, K. Chunkao, O. Phewnil, M. Srichomphu and T. Jinjaruk. 2016. Organic Substance Removal from Pla-Som Family Industrial Wastewater through APCW System. **The 18th International Conference on Environmental and Water Resource Management (ICEWRM 2016)** 26-27 May 2016, Tokyo, Japan, pages 3246-3252.

Wongsrikaew O., T. Pattamapitton, K. Chunkao, S. Poommai and S. Janyasuthiwong. 2018. Physical and Chemical Changes of The Soil in Constructed Wetland Treating Municipal Wastewater: A case Study of Laem Phak Bia Environmental Research and Development Project. **The 2nd International Conference on Environment, Livelihood and Services (ICELS 2018)**. 19 -22 November 2018, Bangkok, Thailand.

2017

Charoensuntisuk N., K. Chunkao, O. Phewnil and T. Pattamapitton. 2017. The Study on Using Chlorine Sanitization and Wastewater Characteristic of Fish Landing Site: Maeklong Fishery Cooperative Fish Market at Samut Songkram Province. **Srinakharinwirot Science Journal**. 33 (1), Pages 59-72, ISSN 2561-1967.

Lamprom W., K. Chunkao, I. Rasriekreangkrai, T. Pattamapitton, W. Wararam and N. Semvimol. 2017. Settlement Pattern of Riverbanks Community Affects Water Quality of Phetchaburi River, Phetchaburi Province. **Journal of Social Sciences Srinakharinwirot University**. 20 (January-December), Pages 313-331, ISSN 0859-2055.

2016

Naknam B., T. Pattamapitton, W. Wararam, N. Semvimol, O. Phewnil, K. Chunkao, T. Jinjaruk and M. Srichomphu. 2016. Performance of Circular Concrete Tanks on Generating Anaerobic Process for Treating High Organic and Fatty Contents of Pla Som Cookery Wastewater. **6th International Conference on Biotechnology for the Wellness Industry 2016 (ICBWI 2016)**. 16-17 August 2016, Melaka, Malaysia.

Petsamsee P., T. Pattamapitton, N. Semvimol, W. Wararam, O. Phewnil, K. Chunkao, P. Wichittrakarn and P. Roll. 2016. Long-Term Contaminated Soils on Retardant Process of Bacterial Organic Digestion for Treating Pla Som Cookery Wastewater Through Vertical Flow Constructed Wetland. **6th International Conference on Biotechnology for the Wellness Industry 2016 (ICBWI 2016)**. 16-17 August 2016, Melaka, Malaysia.

Sombun P., N. Semvimol, K. Chunkao, T. Pattamapitton, W. Wararam, S. Thaipakdee and

U. Nachaiboon. 2016. Roles of Entrapment Fish Fatty as Removed from Plasom Manufactory in Wastewater Treatment Efficiency and Heat Generating. **6th International Conference on Biotechnology for the Wellness Industry 2016 (ICBWI 2016)**. 16-17 August 2016, Melaka, Malaysia.

2015

Chueawong, O., P. Prabuddham, K. Chunkao, O. Phewnil, T. Pattamapitton, N. Chanwong. 2015. Applicability of Royal LERD Vertical Flow Constructed Wetland Model for High Efficiency of Color Absorption along with Second Treatment of Beverage Wastewater. **The 1st International Conference on Environment, Livelihood and Services**, 2-5 November 2015, Bangkok, Thailand.

Chunkao K., O. Phewnil, T. Pattamapitton, N. Semvimol, W. Wararam. 2015. Grass Filtration in Parallel with VFCW Technology for Community Wastewater Treatment through the King's Initiative Nature-by-Nature Process. **Water Practice & Technology**. 10(4): 633-643, DOI: 10.2166/wpt.2015.071.

Mahasinpaisan W., K. Chunkao, W. Tanchalanukit, P. Prabhudham, O. Phewnil, K. Duangmal, C. Chantrasoon, N. Semvimol, T. Pattamapitton, W. Wararam. 2015. Appropriate Discharge from Diversion Dam to Dilute High Concentrated Community Wastewater of Riverbank Settlements along Phetchaburi River in Phetchaburi Province, Thailand. *Modern Applied Science*. 9(11): 18-37, DOI:10.5539/mas.v9n11p18.

Pattamapitton T., K. Chunkao, O. Phewnil, W. Wararam, N. Semvimol, O. Chueawong, T. Jinjaruk, C. Choeihom. 2015. Available UV Killing *Escherichia coli* in Oxidation Ponds for Community Wastewater Treatment through The King's Royally Initiative Nature-By-Nature Process. **The 1st International Conference on Environment, Livelihood and Services (ICELS 2015)**, 2 - 5 November 2015, Bangkok, Thailand.

Phewnil O., T. Pattamapitton, N. Semvimol, W. Wararam, D. Subwongrod and A. Duangsawat. 2015. Linking Upland Soil Properties and Sediment Quality to Potential of Stream Water Quality after Landslide Hazards of Watershed in Northern and Southern of Thailand. **The 1st International Conference on Environment, Livelihood and Services**, 2-5 November 2015, Bangkok, Thailand.

Srichomphu M., T. Boonprakong, K. Chunkao, T. Pattamapitton and N. Semvimol. 2015. Effect of *Microcystis aeruginosa* Blooming on Community Wastewater Quality in Pond Technology System. **KKU Science Journal**. 43 (1): 126-136, ISSN: 2586-9531.

Srichomphu M., T. Pattamapitton, K. Chunkao, O. Phewnil and T. Boonprakong. 2015. Influence of Solar Radiation to *Microcystis aeruginosa* in Oxidation Ponds for Community Wastewater Treatment at Royal LERD Project. **14th National Environmental Conference**. Environmental Engineering Association of Thailand

Srichomphu M., T. Pattamapitton, K. Chunkao, O. Phewnil, T. Boonprakong, W. Wararam, N. Semvimol and C. Choeihom. 2015. Abundance of Cyanobacteria Contamination Affecting on Herbivore Fishes as Phytoplankton Controlling in Balancing Aquatic Ecosystems of Oxidation Ponds for Phetchaburi Municipal Wastewater Treatment. **The 1st International Conference on Environment, Livelihood and Services (ICELS 2015)**, 2-5 November 2015, Bangkok, Thailand

Wararam W., K. Chunkao, O. Phewnil, N. Tangkananuruk, K. Tangkananuruk, T. Pattamapitton,

C. Nimpee, C. Soeihom and J. Peumsin. 2015. Applicable VFCW Technology in Parallel with Biochar-Mixed Soils for Treating Formaldehyde in Ethylene Glycol Factory Wastewater. **Modern Applied Science** 9(12): 154-171, DOI: 10.5539/mas.v9n12p154.

Wararam W., K. Chunkao, O. Phewnil, N. Tangkananuruk, K. Tangkananuruk, T. Pattamapitoon, C. Nimpee, C. Soeihom and J. Peumsin. 2015. Formaldehyde Absorbability of Aquatic Plant Powder Charcoal through Constructed Wetland Technology for CH₂O Industrial Factory Wastewater Treatment. **The 1st International Conference on Environment, Livelihood and Services**, 2-5 November 2015, Bangkok, Thailand.

2014

Chunkao, K., P. Prabhuddram, O. Phewnil, N. Janwong, T. Pattamapitoon, N. Semvimol and T. Boonprakong. 2014. Grass Filtration in Parallel with VFCW Technology for Community Wastewater Treatment through the King's Initiative Nature-by-Nature Process. **The 14th IWA International Conference on Wetland Systems for Water Pollution Control (ICWS 2014)**, 13-16 October 2014, Shanghai, China.

Phewnil O., K. Chunkao, P. Prabhuddham, T. Pattamapitoon, O. Chueawong, T. Boonprakong, C. Nimpee, P. Rollap and S. Mokatip. 2014. The Applying Aquatic Plant in Alternated Flooding and Drying Wetland System of Phetchaburi Municipal Wastewater Treatment in Thailand. **The 14th IWA International Conference on Wetland Systems for Water Pollution Control (ICWS 2014)**, 13-16 October 2014, Shanghai, China.

Phewnil O., K. Chunkao, T. Pattamapitoon, O. Chueawong, C. Chantrasoon and T. Boonprakong. 2014. Choosing Aquatic Plant Species for High Wastewater Treatment Efficiency through Small Wetland. **Modern Applied Science**. 8(4): 187-194, DOI: 10.5539/mas.v8n4p187.

Phewnil, O., K. Chunkao, T. Pattamapitoon, O. Cheuawong, C. Nimpee and N. Chanwong. 2014. Role of Zero-Discharge Small Wetland for Community Wastewater Treatment at The Royal LERD Project Site in Phetchburi Province Thailand. **The 5th International Conference on Biotechnology for the Wellness Industry (ICBWI)**, 10-11 June 2014, The Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia.

2013

Phewnil, O., K. Chunkao., T. Pattamapitoon., O. Chueawong., C. Chantrasoon and T. Boonprakong. 2013. Choosing Aquatic Plant Species for High Wastewater Treatment Efficiency through Small Wetland. **11th IWA Conference–Small Water & Wastewater Systems and Sludge Management**, Harbin, China.

Pattamapitoon T., P.Sirirote, P. Pakkong and K.Chunkao. 2013. Nature of Solar Radiation as Encouraged to Produce an Increment of Dissolved Oxygen and Hydrogen Peroxide in Oxidation Ponds for Community Wastewater Treatment at H.M.The King's LERD Project Site in Phetchaburi Province, Thailand. **Modern Applied Science**. 7(6): Pages 26-41, DOI: 10.5539/mas.v7n6p26.

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