

## WARANGKANA JUTIDAMRONGPHAN, *Ph.D.*

### CONTACT:-

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### EDUCATION:-

- 2012 Ph.D., Civil and Environmental System Engineering,  
Konkuk University, Republic of Korea
- 2008 M.Sc. , Environmental Engineering and Management,  
Asian Institute of Technology, Thailand
- 2004 B.Sc., Agro-Industry, Prince of Songkla University (PSU), Thailand



### EXPERIENCE:-

#### Lecture

(2014 - present)

*Graduate school, Faculty of Environmental Management, PSU*

- Environmental Management (Doctoral course)
- Sustainable Energy System (Master course)
- Solid Waste and Hazardous Waste Management (Master course)
- Waste Recovery and Recycling (Master Course)
- Wastewater Treatment Technologies (Master course)
- Anaerobic Wastewater Treatment (Master course)
- Seminar (Master course)

#### Research Project

(2014 - present)

*Faculty of Environmental Management, PSU*

- 2014 Sustainable Waste Management: Initiative for Green Petrol Station of PTT Petrol Station, Phuket, Thailand
- 2014 Integrated Waste Management from Seafood Industry: A Case Study of Man A Frozen Food Co., Ltd, Thailand
- 2014 Solid Waste Management in High School: A Case Study of Benjamarachutit School, Nakorn Sri Thammarat, Thailand

#### Peer-reviewer

- The Environmental Education Model for Sustainable Mangrove Forest Management in the Eastern Part of Thailand. Applied Environmental Research Journal (AER), 2014
- Perception and Communication of Flood Risk: Lessons Learned about Thailand's Flood Crisis of 2011. Applied Environmental Research Journal (AER), 2014
- Participate Academic Papers of National Conference on "Songkhla Lake Basin", Songkhla, Thailand (Jun - Aug, 2014)

#### Research Member in Center of Excellence (CoE) (In process)

(2015 - present)

*CoE for Hazardous Waste Management, Faculty of Environmental Management, PSU*

**Forum Coordination** (2014 - present)

*Faculty of Environmental Management, PSU*

- Coordinator of Local Policy Planning Brainstorming in Solid Waste Management for Hatyai Municipality (2015)
- Coordinator in Forum Meeting "Solid Waste Management in Songkhla and Nearby Province" (2014 – present)

**Conference, Meeting and Workshop Participation** (2014 - present)

- Academic Representative in Hatyai Civic Association Meeting Workshop (3 Feb, 2015)
- Academic Representative in Songkhla Province Solid Waste Management Committee (Nov 2014 – present)
- Academic Committee of National Conference on "Songkhla Lake Basin", Songkhla (Aug, 2014)

*EIA Project Observation in Public Hearing, Songkhla, Thailand*

- Petroleum Exploration of Block G7/50 Gulf of Thailand by Chevron Petroleum (Thailand), Ltd (24 Nov, 2014)
- N.P. Transportation Port Project, Songkhla, Thailand (6 Jun, 2014)

*The Thailand Society of Higher Education Institutes on the Environment, TSHE, Thailand*

- University Representative in Environmental Training Committee (2014 - present)
- Faculty representative in TSHE Annual General Meeting 2014 (17 Feb 2015)
- Faculty representative in TSHE Meeting 5/2014 (23 Dec 2014)

*Thailand One Health University Network, THOHUN-NCO, Thailand*

- Thailand One-Health Core Competencies, Curriculum Mapping and Evaluation (7-9 May 2014)
- THOHUN Annual Meeting (22-23 May, 2014)

**Research Collaboration: Renewable Energy for Community** (2012 - 2013)

*Business Services Alliance Co. Ltd, PTT group, Bangkok, Thailand*

- Drafted Terms of Reference (TOR) to Academic Institutes and Researchers in Renewable Energy
- Prepared Reliability Reports and Maintaining Database of Renewable Energy Update
- Evaluated and Improved Renewable Energy Researches and Technologies to Practical Sites
- Implemented Renewable Energy Research and Innovation to Target Communities
- Designed Strategies, Project Analysis, and Proposed Profitable Technologies of Small Renewable Energy Power Plant Project for Self-sufficient Community

**Research Assistant** (2008 - 2012)

*Department of Civil and Environmental Engineering, Konkuk University, Republic of Korea*

- Innovated Research and Methodology to Build on Nutrient Removal from Wastewater
- Investigated and Analyzed the Physicochemical Parameters Involved in Effluent Treatment
- Carried on Microalgae Reinforced with Carbon Dioxide for Wastewater Treatment Research

**Curriculum Procedure** (2014 - present)

*Earth System Environment and Adaptation Course, Faculty of Environmental Management, PSU*

- Prepared and Managed Document of "Earth System Environment" Curriculum for Graduate Students

## **PUBLICATION:-**

### **Solid Waste Management**

Darajorn, S., Jutidamrongphan, W. 2014. Solid Waste Characteristic and Management: A Case Study in High School. Proceeding on *The 13th National Conference on Environmental Engineering, Science and Management*. Bangkok, Thailand.

### **Climate Change**

Polprasert, C., Kittipongvises, S., Jutidamrongphan, W. 2009. Minimizing Greenhouse Gas Emission through Integrated Waste Management: Case Studies in Thailand. *The Journal of the Royal Institute of Thailand*. (1). 124-135.

Bourbud, N., Kittipongvises, S., Jutidamrongphan, W. 2014. Environmental Awareness and Integrated Waste Management in Ecotourism Participation. Proceeding on *The 1st International Congress on Gateway to Asian Pacific: Opportunities and Challenges for Better Life in Ecotourism Management 2014 (OCBEM 2014)*. Krabi, Thailand. p 48.

Kittipongvises, S., Jutidamrongphan, W. 2014. Roadmap for Driving Thailand to Low Carbon Society: Lessons Learned from Japan and China. Proceeding on *The 13th National Conference on Environmental Engineering, Science and Management*. Bangkok, Thailand.

### **Wastewater Treatment**

Jutidamrongphan, W., Park, K.Y., Lee, K., Kim, D., Lim, B.R., Lee, J.W. 2014. Effect of Carbon Dioxide Injection on Photosynthetic Wastewater Treatment Using Microalgae *Chlorella vulgaris* and *Euglena gracilis*. *Desalination and Water Treatment*. 2014 (1-7).

Jutidamrongphan, W., Park, K.Y., Dockko, S., Choi, J.W., Lee, S.H. 2012. High Removal of Phosphate from Wastewater Using Silica Sulfate, *Environ. Chem. Lett.* 10. 20-28.

Lee, J.W., Jutidamrongphan, W., Park, K.Y., Moon, S., Park, C. 2012. Advanced Treatment of Wastewater from Food Waste Disposer in Modified Ludzack-Ettinger Type Membrane Bioreactor. *Environ. Eng. Res.* 2012 June, 17(2). 1-5.

Jutidamrongphan, W., Park, K.Y., Choi, J.W., Lee, S.H. 2011. Comparison of Adsorbents for Tertiary Phosphate Removal from Wastewater. Proceeding on *International Conference on Wastewater Reuse and Reclamation, Wastewater Reuse Asia 2011*.

Park, K.Y., Jutidamrongphan, W., Choi, J.W., Lee, S.H. 2011. Removal of Phosphate from Aqueous Solutions and Wastewater Using Synthesized Mesoporous TiO<sub>2</sub> as an Adsorbent. Proceeding on *The 4th IWA-ASPIRE conference and Exhibition 2011*. (Poster)

Lim, B.R., Jutidamrongphan, W., Park, K.Y. 2010. Comparison of Models to Describe Growth of Green Algae *Chlorella vulgaris* for Nutrient Removal from Piggery Wastewater. *Journal of the Korean Society of Agricultural Engineers*. 52(6). 1-8. DOI: 10.5389/KSAE. 2010.52.6

### **Earth System Education**

Jutidamrongphan, W. 2014. Climate Change and Earth System Education. Proceeding on *THOHUN Annual Meeting 2014*. 22-23rd May 2014. Bangkok, Thailand. p. 52.

### **Renewable Energy**

Muang Sri, T., Chiradeja, P., Charusiri, W., Jutidamrongphan, W. 2014. Hybrid Wind Energy and Solar Power for Tourist Location. Proceeding on *The 1st International Congress on Gateway to Asian Pacific: Opportunities and Challenges for Better Life in Ecotourism Management 2014 (OCBEM 2014)*. Krabi, Thailand. p 35.

Muang Sri, T., Chiradeja, P., Jutidamrongphan, W. 2014. Vertical Axis Wind Turbine and Solar Cell Hybrid for Community Energy. Proceeding on *The 10th Conference on Energy Technology Network of Thailand; E-NETT*. Songkhla, Thailand. p 51.

**SKILLS:-**

Language Skills: English - TOEIC 820 (March, 2013)

Computer Skills: MS Office, SigmaPlot