

## CURRICULUM VITAE

**NAME** : CHAIWAT EKKAWATPANIT

**NATIONALITY** : Thai

**OFFICE ADDRESS** : Civil Engineering Department  
Faculty of Engineering  
King Mongkut's University of Thonburi,  
THAILAND

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**EDUCATION** : B.Eng.(Water Resources Engineering), Kasetsart  
University

M.Eng.(Water Resources Engineering),  
King Mongkut's University of Technology  
Thonburi

Ph.D.(Civil and Environmental Engineering),  
Tohoku University, Sendai, Japan

**OTHER TRAINING**

2009 : Workshop of Integrated Study on Hydro-  
Meteorological Prediction and Adaptation to  
Climate Change in Thailand, University of  
Tokyo, Japan.

2009 : Workshop of Integrated Study on Hydro-  
Meteorological Prediction and Adaptation to  
Climate Change in Thailand, Kasetsart  
University, Thailand.

2010 : Workshop of H08 model, National Institute  
for Environmental Studies(NIES), Japan.

2014 : International Visitor Leadership Program  
(IVLP)in Water Resources Protection, United  
Stated of America

**MEMBERSHIP IN PROFESSIONAL SOCIETIES** : 1) Council of Engineer (THAILAND)  
2) Thai Hydrologist Assembly  
3) Japanese Society of Civil Engineers (JSCE)

**WORK EXPERIENCES**

2002-present : Lecturer/Assist Prof.  
Department of Civil Engineering,  
King Mongkut's University of Technology  
Thonburi, Bangkok, Thailand

2012(3 months) : Researcher, Institute of Industrial  
Science(IIS), University of Tokyo, Japan  
(Hitachi Foundation Support)

2001-2002 : Water Resources Engineer  
Aggie consult, co, Ltd.

**RESEARCH EXPERIENCES**

**Previous Research**

**National Research Council Thailand (NRCT)**

2012-2013:Effect of climate change on runoff in Ping River Basin(PI)  
2014:Flood Risk Assessment under climate change in Upper Chaophaya River Basin  
(PI)  
2015:A Study of Reservoir Operation in Bhumibol and Sirikit Dam during Flood  
Season under Climate change (PI)  
2016:The study of significant wave height using mathematical model(PI)  
2018:Water footprint for land and water resource management for food and energy  
production under the future climate change, co-I

**Petroleum Authority of Thailand (PTT)**

2016:Impact of Climate change on Temperature and Precipitation Pattern of Klong  
Yai River Basin  
2017:Impact of Climate Change on Reservoirs Inflow for Klong Yai River Basin and  
Prasae River Basin (PI)

**Integrated Study on Hydro-Meteorological Prediction and Adaptation to Climate  
Change in Thailand(IMPAC-T)(JICA/JST)**

2009-2015:Researcher (Climate change impact on water resources, PI)

**Current Research**

**Advancing co-design of integrated strategies with adaptation to climate  
change in Thailand (ADAP-T)(JICA/JST)**

Researcher (Climate change impact on water resources, PI)

**Newton Fund and Thailand Science Research and Innovation (TRF):** Understanding of the Impacts of Hydrometeorological Hazards Strengthening Thailand's agricultural drought resilience (STAR), co-I

**Thailand Science Research and Innovation (TRF)**

Integration of Water Resources Management for Drought Mitigation, PI

**Asia-Pacific Network for Global Change Research (APN)**

Establishing a Regional Dataset on Emerging Pollutants to Support Surface Water Management of Seven Large Cities of East and Southeast Asia, co-I

**Cranfield University**

Drought compensation for farmers in Thailand - Is the scheme promoting agriculture's long-term resilience? co-I

**FIELDS OF INTEREST:**

Hydrological modelling, Remote sensing, Flood, Hydrology and Watershed management, Impacts of Climate Change on Water resources

**ACADAMIC REPORTS/PUBLICATIONS:**

**International Research Papers**

**2009**

- **Ekkawatpanit, C.**, Kazama, S., Sawamoto, M., and Ranjan, P., 2009. Assessment of water conflict in Mae Chaem River Basin, Northern Thailand. *Water International*, 34(2), 242-263.

**2010**

- Petchprayoon, P., Blanken, P.D., **Ekkawatpanit, C.**, Hussein, K., 2010. Hydrological impacts of land use/land cover change in a large river basin in central-northern Thailand. *International Journal of Climatology*. 30(13), 1917-1930.

**2013**

- **Ekkawatpanit, C.**, Kazama, S., Sawamoto, M., and Ranjan, P., 2013. Evaluation of the inequality of water resources. *Water Management*. 166(6), 303 -314
- Hanasaki, N., Saito, Y., Chaiyasaen, C., Champathong, A., **Ekkawatpanit, C.**, Saphaokham, S., Sukhapunnaphan, T., Sumdin, S., Thongduang, J., 2013. A quasi-real-time hydrological simulation of the Chao Phraya River using meteorological data from the Thai Meteorological Department Automatic Weather Stations, *Hydrological Research Letters*, 8(1), 9-14.

**2014**

- Pratoomchai, W., Kazama, S., Hanasaki, N., **Ekkawatpanit, C.**, Komori, D., 2014, A projection of groundwater resources in the Upper Chao Phraya River basin in Thailand, *Hydrological Research Letters*, 8(1), 20-26.
- Ono, K., Kazama S., **Ekkawatpanit, C.**, 2014, Assessment of rainfall-induced shallow landslides in Phetchabun and Krabi provinces, Thailand. *Natural Hazards*, 74(3), 2089-2107.

## 2015

- Pratoomchai, W., Kazama, Manandhar, S., Ekkawatpanit, C., Saphaokham, S., Komori, D., Thongduang, J., 2015, Sharing of people's Perceptions of Past and Future Hydro-Meteorological Changes in the Groundwater Use Area, *Water Resources Management*, 29(10), 3807-3821.
- Pratoomchai, W., Kazama, S., Ekkawatpanit, C., Komori, D., 2015, Opportunities and constraints in adapting to flood and drought conditions in the Upper Chao Phraya River basin in Thailand, *International Journal of River Basin Management*, 13(4), 413-427.

## 2017

- Rangsiwanichpong, P., Kazama, S., Ekkawatpanit, C., 2017 Analyzing the relationship between ocean indices and rainfall in the Chao Phraya River Basin, *International Journal of Climatology*, 37(S1), 230-238.
- Kositgittiwong, D., Ekkawatpanit, C., Chiawyonsin, S., Petpongpan, C. and Ekkphisutsuntorn, P., 2017, Development of wetland water management in Bueng Takreng, Thailand, *Wetland Research*, Vol.7, pp.25-31.
- Komporn, W., Ekkawatpanit, C., Kositgittiwong, D., 2018, Assessment of ocean wave energy resource potential in Thailand, *Ocean & Coastal Management*, 180, 64-74.
- Hiraga, Y., Kazama, S., Ekkawatpanit, C., Touge, Y., 2018, Impact of reclamation on the environment of the lower mekong river basin, *Journal of Hydrology: Regional Studies*, 18, 143-155.

## 2019

- Rangsiwanichpong, P., Kazama, S., Ekkawatpanit, C. and Gunawardhana, L., 2019, Evaluation of cost and benefit of sediment based on landslide and erosion models. *CATENA*, 173, pp.194-206.
- Ketsiri, C., Kositgittiwong, D., Ekkawatpanit, C., 2019, Submerged breakwaters design development based on artificial oyster reef, *Lowland Technology International*, 20(2), pp.229-236.
- Huang, G., Xue, H., Liu, H., Ekkawatpanit, C. and Sukhapunnapha, T., 2019, Duality of Seasonal Effect and River Bend in Relation to Water Quality in the Chao Phraya River. *Water*, 11(4), 656.

## 2020

- Hiraga, Y., Kazama, S., Ekkawatpanit, C. and Yamada, K., 2020. Evaluation of the impact of landfill on floodplain water quality in a tropical monsoon region. *Hydrological Research Letters*, 14(1), pp.48-55.
- Kanjanakaroon, P., Ekkawatpanit, C., Wongsas, S., Isarangkura, U. and Kositgittiwong, D., 2020. A comparative study of embankment breach parameters in different breach locations. *Journal of Hydro-environment Research*, 29, pp.59-69.
- Petpongpan, C., Ekkawatpanit, C. and Kositgittiwong, D., 2020. Climate Change Impact on Surface Water and Groundwater Recharge in Northern Thailand. *Water*, 12(4), p.1029.
- Foyhirun, C., Kositgittiwong, D. and Ekkawatpanit, C., 2020. Wave Energy Potential and Simulation on the Andaman Sea Coast of Thailand. *Sustainability*, 12(9), p.3657.
- Visessri, S., and Ekkawatpanit, C., 2020. Flood Management in the Context of Climate and Land-Use Changes and Adaptation Within the Chao Phraya River Basin, *J. Disaster Res.*, Vol.15, No.5, pp.579-587.
- Ekkawatpanit, C., Pratoomchai, W., Khemngoen, C., and Srivihok, P. Climate change impact on water resources in Klong Yai River Basin, Thailand, *Proc. IAHS*, 383, 355-365, <https://doi.org/10.5194/piahs-383-355-2020>, 2020.

## 2021

- Petpongpan, C.; **Ekkawatpanit, C.**; Visessri, S.; Kositgittiwong, D. 2021. Projection of Hydro-Climatic Extreme Events under Climate Change in Yom and Nan River Basins, Thailand, *Water*, 13(5), No.665.
- Anh, H., Le, T., Da Le, N., Lu, X., Duong, T., Garnier, J., Rochelle-Newall, E., Zhang, S., Oh, N., Oeurng, C., **Ekkawatpanit, C.**, Nguyen, T., Nguyen, Q., Nguyen, T., Nguyen, T., Tran, T., Kunisue, T., Tanoue, R., Takahashi, S., Minh, T., Le, H., Pham, T. and Nguyen, T., 2021. Antibiotics in surface water of East and Southeast Asian countries: A focused review on contamination status, pollution sources, potential risks, and future perspectives. *Science of The Total Environment*, Vol. 764, p.142865.
- Petpongpan, C., **Ekkawatpanit, C.**, and Kositgittiwong, D., 2021, Landslide risk assessment using hydrological model in the Upper Yom River Basin, Thailand. *CATENA*, 204, 105402. doi:10.1016/j.catena.2021.105402
- Petpongpan, C., **Ekkawatpanit, C.**, and Kositgittiwong, D., 2021, Improving integrated surface water-groundwater modeling with groundwater extraction for water management, *Hydrological Science Journal*, Vol 66, 10, doi: 10.1080/02626667.2021.1948549
- Rai, M.R.; Chidthaisong, A.; **Ekkawatpanit, C.**; Varnakovida, P. Assessing Climate Change Trends and Their Relationships with Alpine Vegetation and Surface Water Dynamics in the Everest Region, Nepal. *Atmosphere* 2021, 12, 987. <https://doi.org/10.3390/atmos12080987>
- Nguyen, C.T., Chidthaisong, A., Limsakul, A., Varnakovida, P., **Ekkawatpanit, C.**, Diem, P.K., & Diep, N.T. (2022). How do disparate urbanization and climate change imprint on Urban Thermal Variations? A comparison between two dynamic cities in Southeast Asia. *Sustainable Cities and Society*, 82, 103882. <https://doi.org/10.1016/j.scs.2022.103882>

## 2022

- Goodwin, D., Holman, I., Pardthaisong, L. Supattra, V., **Ekkawatpanit, C.**, Dolores. R.V., What is the evidence linking financial assistance for drought-affected agriculture and resilience in tropical Asia? A systematic review. *Reg Environ Change* 22, 12 (2022). <https://doi.org/10.1007/s10113-021-01867-y>
- Nguyen, C.T., Chidthaisong, A., Limsakul, A., Varnakovida, P., **Ekkawatpanit, C.**, Diem, P.K., Diep, N.T.H., How do disparate urbanization and climate change imprint on urban thermal variations? A comparison between two dynamic cities in Southeast Asia, *Sustainable Cities and Society*, Vol 82, 103882 <https://doi.org/10.1016/j.scs.2022.103882>
- Petpongpan, C., **Ekkawatpanit, C.**, Bailey, R.T. et al. Evaluating Surface Water-groundwater Interactions in Consequence of Changes in Climate and Groundwater Extraction. *Water Resour Manage* (2022). <https://doi.org/10.1007/s11269-022-03334-7>
- Goodwin, D., Holman, I., Sutcliffe, C., Salmoral, G., Pardthaisong, L., Visessri, S., **Ekkawatpanit, C.**, & Rey, D. (2022). The contribution of a catchment-scale advice network to successful agricultural drought adaptation in northern Thailand. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 380(2238). <https://doi.org/10.1098/rsta.2021.0293>
- Pratoomchai W, **Ekkawatpanit C.**, Yoobanpot N, Lee KT. (2022). A Dilemma between Flood and Drought Management: Case Study of the Upper Chao Phraya Flood-Prone Area in Thailand. *Water*, 14(24):4056. <https://doi.org/10.3390/w14244056>

## 2023

- Wetchayont, P., Ekkawatpanit, C., Rueangrit, S., & Manduang, J.(2023).Improvements in rainfall estimation over Bangkok, Thailand by merging satellite, radar, and gauge rainfall datasets with the geostatistical method.Big Earth Data, 7(2), 251-275.doi:10.1080/20964471.2023.2171581
- Tanguy, M., Eastman, M., Magee, E., Barker, L.J., Chitson, T., Ekkawatpanit, C., Visessri, S.(2023).Indicator-to-impact links to help improve agricultural drought preparedness in Thailand.Natural Hazards and Earth System Sciences, 23(7), 2419-2441.doi:10.5194/nhess-23-2419-2023

### **International Conference and Proceedings**

- Ekkawatpanit, C., Kazama, S., Sawamoto, M.,2005. Inundation Model Application in Yom River Basin, Proceedings of the Annual Session of the Japanese Society of Civil Engineers -Tohoku Branch, Sendai, March 11, 2005.
- Ekkawatpanit, C., Kazama, S., Sawamoto, M., 2005. Inundation Model Application in Yom River Basin, Proceedings of the Annual Session of the Japanese Society of Civil Engineers -Tohoku Branch, Sendai, March 11, 2005.
- Ekkawatpanit, C., Kazama, S., Sawamoto, M., 2006. Application of Geographic Information System on Soil Erosion Estimation in Mae Chaem River Basin, Proceedings of the Annual Session of the Japanese Society of Civil Engineers - Tohoku Branch, Hachinohe, March 10, 2006.
- Ekkawatpanit, C., Kazama, S., Sawamoto, M., Wongsas, S.,2006. Soil erosion evaluation in Mae Cheam River by using GIS and numerical model, Proceedings of the 15th congress the APD/IAHR, Vol.1, pp.677-684.
- Ekkawatpanit, C., Kazama, S., Sawamoto, M., Wongsas, S., 2006. Numerical Simulation of Soil Erosion in Mae Cheam River Basin During Flood Period, 3rd Asia Pacific Association of Hydrology and Water Resources (APHW), 16 -18 October 2006.
- Ekkawatpanit, C., Kazama, S., Sawamoto, M., 2007. Effect of land use change on water resources in Mae Chaem River basin, Proceedings of the Annual Session of the Japanese Society of Civil Engineers -Tohoku Branch, Yamagata, March 3, 2007.
- Wongsas, S., Ekkawatpanit, C., Treerittiwitaya, K.,2010. Effect of sea water level change on the management in the Lower Thachin River, Thailand. Proceedings of the International Symposium on Coastal Zones and Climate Change: Assessing the Impacts and Developing Adaptation Strategies, 12 - 13 April 2010, Monash University, Australia
- Wannawong, W., Wongwiset, P., Ekphisutsuntorn, P., Ekkawatpanit, C., Humphries, U.W, Numerical Study of the Effect of Wind Waves Generated by Tropical Cyclones Using Wave Model / Proceedings of the 2011 Solutions to Coastal Disasters Conference Solutions to Coastal Disasters 2011, ASCE , 12 -13 March 2009, pp.257-269.
- Champathong, A., Sumdin, S., Chaiyasaen, C., Ekkawatpanit, C., and Hanasaki, H., "Assessment of Rice Yields in the Upper Chao Phraya River Basin Using H08 Model", Proceedings of the 1st EIT International Conference on Water Resources Engineering, 18-19 August 2011, Grand Pacific Sovereign Hotel Resort & Spa, Thailand, pp.141-148.
- Ekkawatpanit, C. , Saphaokham, S. , Thongduang, J. , Champathong, A. , and Hanasaki, N., (2011), "Evaluation of GSWP-2 Global Meteorological Dataset and H08 Hydrological Simulation in the Upper Chaophaya River", Proceedings of the 1st

EIT International Conference on Water Resources Engineering, 18-19 August 2011, Grand Pacific Sovereign Hotel Resort & Spa, Thailand, pp.149-155

- Ekkawatpanit, C., Champathong, A., Saphaokham, S., Sukkapan, T., Thongduang, J., Sumdin, S., Chaiyasaen C., and Hanasaki, N, (2011), "Sensitivity analysis of land surface parameters using H08 model", The 9th International Symposium on Southeast Asian Water Environment, Vol. 9(Part I), 1-3 December, 2011, KU/AIT, Emerald Hotel, Bangkok, pp.145-151.
- Champathong, A., Sumdin, S., Chaiyasaen, C., Ekkawatpanit, C., Thongduang, J., Sukkapan, T., Saphaokham, S., and Hanasaki, N, (2011). "Sensitivity tests of cropping parameters for rice yields using H08 model", The 9th International Symposium on Southeast Asian Water Environment, Vol. 9(Part II), 1-3 December, 2011, KU/AIT, Emerald Hotel, Bangkok, pp.148-153.
- Ekkawatpanit, C., Pratoomchai, W., Saphaokham, S., Sukhapunnaphan, T., Thongduang J., Mateo C.M., and Naota Hanasaki Projection of river discharge with reservoir operation in the Upper Chao Phraya River basin, Thailand, Proceedings of the 2nd EIT International Conference on Water Resources Engineering, 5 -6 September 2013, Le Méridien Chiang Rai Resort, Thailand.
- Pratoomchai, W., Kazama, S., Hanasaki, N., Ekkawatpanit, C. and Komori, D. (2014), "An Evaluation of Groundwater Resources for the Agricultural Water Requirements in the Lower Yom And Nan River Basins in Thailand", Proceedings of the 7th International Symposium on Environmental Hydraulics, January 7-9, 2014, Singapore, pp.118-121.
- Ekkawatpanit, C., Wannawong, W., Kositgittiwong, D. and Chitradon, R. (2014): "Assessment Of Wave Energy Resource from the Deep Sea to the Coastal Area of Gulf of Thailand", Proceeding of the 2nd Asian Wave and Tidal Energy Conference (AWTEC-2014), Tokyo Big Sight, Japan, July 24 August 1, 2014, CD.(O-OC-13.5)
- Pratoomchai, W., Komori, D., Kazama, S., Hanasaki, N. and Ekkawatpanit, C. (2014), "Evaluation of Surface Water Shortage And Potential use of Groundwater for the Agricultural Water Demand in the Upper Chao Phraya River Basin in Thailand" JSCE Tohoku Annual Conference, March 8, 2014, Hachinohe Institute of Technology, Japan.
- Chantaluck, S., Kazama, S., Ekkawatpanit, C., Amano, A. and Asawapiched, B. (2014): "Assessing grid size effects on inundation and groundwater using hydrological model in the Lower Mekong River basin" JSCE Tohoku Annual Conference, March 8, 2014, Hachinohe Institute of Technology, Japan.
- Pratoomchai, W., Kazama, S., Ekkawatpanit, C., Saphaokham, S. and Komori, D. (2014): "People's Perceptions on Climate Change: Case Study in Groundwater Irrigation Project in Thailand" JSCE Annual Conference, September 12-15, 2014, Osaka University, Japan, CS2-022, 43-44.
- Kositgittiwong, D., Ekkawatpanit, C. and Wannawong, W. (2014), "Numerical Simulation of Ocean Waves for Hydropower Generation in Thailand" Proceedings of the 19th IAHR-APD Congress 2014, Hanoi, Vietnam, 21-24 September, 2014.
- Pratoomchai, W., Kazama, S., Hanasaki, N., Ekkawatpanit, C. and Komori, D. (2014): "Projection Of Surface And Subsurface Water Resources Using GCMs In The Upper Chao Phraya River Basin In Thailand", Proceedings of the 19th IAHR-APD Congress 2014, Hanoi, Vietnam, 21-24 September, 2014.
- Pratoomchai, W., Kazama, S., Ekkawatpanit, C., Saphaokham, S. and Komori, D. (2014): "People's Perceptions on Climate Change: Case Study in Groundwater Irrigation Project in Thailand" JSCE Annual Conference, September 12-15, 2014, Osaka University, Japan, CS2-022, 43-44.

- Kanjanakaroon, P., Ekkawatpanit, C., Wongsas, S., Israngkura, U. and Kositgittiwong, D., 2015, "Effects of Embankment Breach Position on Characteristics of Failure", The 36th IAHR World Congress, The Hague, The Netherlands, 28 June -3 July, 2015.
- Ekkawatpanit, C., Pratoomchai, W., Hanasaki, N. and Kazama, S., (2015) "Impacts of Climate Change on Water Resources of the Upper Chao Phraya River Basin in Thailand", Proceedings of International Experts' Workshop Towards Urban Water Security in Southeast Asia: Managing Risk of Extreme Events, 19-20 November, 2015, Phnom Penh, Cambodia, pp.69-83.
- Rangsiwanichpong, P., Ekkawatpanit, C., Komori, D. and Kazama, S. (2016): "Assessment landslides hazard map in Thailand using extreme daily rainfall" Proceedings of the Annual Session of the Japanese Society of Civil Engineers Tohoku Branch, Miyagi, Japan, March 14-15, 2016.
- Komporn, W., Tanaka, H., Ekkawatpanit, C. and Kositkittiwong, D. (2016): "Application of simulating WAVES nearshore (SWAN) model for wave simulation in Andaman sea 2014" Proceedings of the Annual Session of the Japanese Society of Civil Engineers Tohoku Branch, Miyagi, Japan, March 14-15, 2016.
- Rangsiwanichpong, P., Kazama, S. and Ekkawatpanit, C. (2016): "Assessment of flood and drought using ocean indices in the Chao Phraya river Basin, Thailand", 7th ICWRER, June 5-9, 2016, Kyoto, Japan, pp.14-04-1-14-04-6.
- Aimmanee, S., Ekkawatpanit, C. and Asanuma, H. (2016): "Smart disaster mitigation in Thailand", Proceedings of SPIE vol. 9803, pp.98030w-1-7
- Komporn, W., Ekkawatpanit, C. and Kositkittiwong, D. (2016): "Evaluation of wave energy using numerical model in gulf of Thailand and Andaman Sea", The 3rd Asian Wave and Tidal Energy Conference, Singapore, 24-28 October, 2016.
- Foyhirun, C., Kositkittiwong, D. and Ekkawatpanit, C. (2016): "The use of computational fluid dynamics wave simulation in the coastal zone of Thailand", The 3rd Asian Wave and Tidal Energy Conference, Singapore, 24-28 October, 2016, pp.695-701. (Best paper award)
- Ekkawatpanit, C., Kositgittiwong, D., Komporn, W. and Foyhirun, C. (2016): "The possibility of promoting wave energy in the coastal zone of Thailand", SEE 2016 in conjunction with ICGSI 2016 and CTI 2016, 28-30 November 2016, Bangkok,
- Ketsiri, C. Kositgittiwong, D. and Ekkawatpanit, C., (2017): "Submerged Breakwaters Design Development based on Artificial Oyster Reef", International Convention on Civil Engineering, 20-21 July, 2017 Nakornratchasima, Thailand.
- Hongto, W., Wannawong, W., Saetae, D., Ekkawatpanit, C., Sakornmaneerat, P., 2018, Alternative methods for offshore wind-wave resources and power assessments over the Gulf of Thailand and Andaman Sea (528), AWTEC 2018, Taipei, Taiwan.

#### **National Journals**

- Ekkawatpanit, C., Buranet, B., 2010, Assessment of The Climate Change Effect on Annual Runoff, Journal of Research in Engineering and Technology, Vol.7, July-September, pp.35-40.
- Kanjanakaroon, P., Ekkawatpanit, C., Wongsas, S., Israngkura, U., Kositgittiwong D., The Study of Embankment Breach from Overtopping Flow near Hydraulic Structure by Physical Model SWU Engineering Journal 10(1), 12-21.
- Kositgittiwong, D., Ekkawatpanit, C., Jaidee, T. and Lerdmongkolname, J., 2016. Wave Energy in Thailand: Policy and Appropriateness of Wave Power Generator, SWU Engineering Journal 11(2), 152-15.
- Petchpongpan, C., Ekkawatpanit, C., Kositgittiwong, D., Lee, K.T, Performance Assessment of the Hydrological Models KW-GIUH and BTOPMC for River Runoff

Simulation in Upper Yom River Basin, UBU Engineering Journal 10(2), 74-84.

- Petchpongpan, C., Ekkawatpanit, C., Kositgittiwong, D., Lee, K.T., Application of KW-GIUH Model for Flood Mitigation of Kaeng Sua Ten dam, SWU Engineering Journal 12(1), 127-136.
- Wititpan, S., Ekkawatpanit, C., Kositgittiwong, D., Srikasit, Sasananan, S., Automatic Calibration of Tank Model Using Microsoft Excel Solver, SWU Engineering Journal 12(2), 151-159.
- Komkhum, N., Kositgittiwong, D., Ekkawatpanit, C., A Simulation Study of Detention Pond for Flood Inundation Reduction in Lower Chao Phraya River Basin, Journal of Science and Technology, Ubon Ratchathani University, 21(1), 37-45.

### **National Conferences**

- Ekkawatpanit, C., Buranathanitt, T., 2001. The Development of Flood Warning System for Chumphon Municipality, Proceedings of the 8th National Convention on Civil Engineering, October 23-25, 2001 (in Thai).
- Wongsas, S., Ekkawatpanit, C., Treerittiwitaya, K., 2009. Effect of global warming on Hydraulic and salinity behaviors in the Lower Thachin River, Proceedings of the 4th THAICID, Bangkok, Thailand (in Thai).
- Treerittiwitaya, K., Ekkawatpanit, C., Wongsas, S., 2009. The effect of sea level change on the Lower Thachin River, Proceedings of the 14th National Convention on Civil Engineering, Nakhonratsima, Thailand (in Thai).
- Buranet.B., Ekkawatpanit, C., Chinnarasri, C., 2009. The effect of land use change on catchment hydrology in Huay Kraseaw Basin, Proceedings of the 3th National Convention on Water Resources Engineering, Nakhon Nayok, Thailand (in Thai).
- Treerittiwitaya, K., Ekkawatpanit, C., Wongsas, S., 2009. Effect of sea level change change on paddy field in the lower Thachin River Basin, Proceedings of the 3th National Convention on Water Resources Engineering, Nakhon Nayok, Thailand (in Thai).
- Ekkawatpanit, C., Wongsas, S., 2010. Effect of Sea Water Level Change on the Farmlands in the Thachin Estuaries, The First Climate Thailand Conference 2010: National Risks and Opportunities in Global Climate Changes, 19 -21 August 2010, Nonthaburi, Thailand

### **TECHNICAL REPORTS**

- Sethaputra, S., Soonthornnonda, P., Ekkawatpanit, C., 2010. The study to conduct technical information on water resources in ASEAN. Final report. Department of Water Resources (DWR), Ministry of Natural Resources and Environment, Bangkok, Thailand.