

Napaporn Piamsa-nga

Position	<i>Assistant Professor</i> Department of Water Resources Engineering Faculty of Engineering Kasetsart University Jatujak Bangkok 10900 Phone (66)-2942-8555 ext. 1919 Fax (66)-2579-1567 mailto:napaporn.r@ku.ac.th
	<i>Classes Taught</i> <ul style="list-style-type: none">- Fluid Mechanics- Flows in Open Channel- Hydrology- Research Method in Water Resources Engineering- Urban Drainage Engineering Design- Urban Drainage and Wastewater Collection Systems Operation and Maintenance
Date of Birth	August 24, 1968
Education	Ph.D. (Civil Engineering) Osaka University, Japan 2006
	M.Eng. (Water Resources Engineering) Kasetsart University 1995
	B.Eng. (Water Resources Engineering) Kasetsart University 1990
Certificates	Professional Engineer Certificate in Civil Engineering
Management Position	Head of Water Resources Department, 2011-2015
	Deputy Head of Water Resources Department, 2007-2011
	Secretary of Water Resources Department, 1991-1997

Publication	<ol style="list-style-type: none"> 1. Wongsan Sanit, Piamsa-Nga Napaporn, Vichiensan Varameth, and Nakamura Shinichiro, Implementation of Nays2DFlood Modeling for Integrated Floodplain/Stromwater Management: Case Study in Sukhumvit Area, Bangkok, Thailand, THA 2019 International Conference, 23-25 January 2019, Bangkok, Thailand, pp 72-77 2. Wongsan Sanit, Vichiensan Varameth, Piamsa-Nga Napaporn, and Nakamura Shinichiro, Urban Flooding and Adaptation to Climate Change in Sukhumvit Area, Bangkok, Thailand, 11th International Conference on Urban Drainage Modelling (UDM2018), 23-26 September 2018, Palermo, Italy. 3. Koji Kawasaki, Toshikazu Ono, Napaporn Piamsa-nga, Hiroshi Atsuta and Keiji Nakatsuji, 2004, "Development of Depth-Averaged Inundation Flow Model Based on CIP Method and SMAC Method", Annual Journal of Hydraulic Engineering, JSCE, Vol.48, February 2004, Japan, pp.565-570 4. Koji Kawasaki, Napaporn Piamsa-nga and Keiji Nakatsuji, 2004, "Coupled Numerical Model of Flood Inundation-Groundwater Flows", Environmental Hydraulics and Sustainable Water Management, Proceeding of the 4th International Symposium on Environmental Hydraulics and the 14th Congress of Asia and Pacific Division, Organized by International Association of Hydraulic Engineering and Research, 2004, Hong Kong, pp.1417-1423 5. Napaporn Piamsa-nga, Emi Maeda and Keiji Nakatsuji, 2005, "Effects of Dike Heightening to Flood Behaviors in The Chao Phraya River Basin", The 60th JSCE Annual Meeting, September 7-9, 2005, Tokyo, Japan, pp.93-94 6. Chukait Sappaisal, Napaporn Piamsa-nga and Keiji Nakatsuji, 2005, "Flood Analysis in Urban Area of The Eastern Bangkok Metropolitan Area", Proceeding of XXXI IAHR Congress, September 11-16, 2005, Seoul, Korea, pp.1180-1189 7. Napaporn Piamsa-nga, Emi Maeda and Keiji Nakatsuji, 2005, "Dynamic Behavior of Flood in Lower Central Plain of the Chao Phraya River Basin", Proceeding of XXXI IAHR Congress, September 11-16, 2005, Seoul, Korea, pp.5552-5562 8. Siranut Narktap and Napaporn Piamsa-nga, 2018, The High-Resolution Analysis of Intensity-Duration-Frequency Curves for Bangkok Metropolitan Area, The 23rd National Convention on Civil Engineering July 18-20, 2018, Nakhon Nayok, Thailand (In Thai) 9. Dulayatatsanee Sanwang, Kobkait Pongput and Napaporn Piamsa-nga, 2018, Estimation of Soil Properties on Slope Complex on Soil Moisture and Parameters by SWAT Model of the Upper Nan Basin, 11th THAICID National Symposium, June 20, 2018, Nonthaburi, Thailand, pp. 158-171. (In Thai) 10. Tissanwan Suphiphathanamolee, Napaporn Piamsa-nga and Surachai Lipiwattanakarn, 2018, Groundwater Potential Evaluation of Huai Sai Royal Development Study Center Using Visual Modflow Model, 19th The National Graduate Research Conference, March 9, 2018, Khon Kaen, Thailand, pp 229-241. (In Thai) 11. Nirobon Rodjanakon and Napaporn Piamsa-nga, 2017, The Study on Existing Drainage System in Saphansung District, Bangkok by
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	InfoWorks CS. The 22 nd National Convention on Civil Engineering, July 18-20, 2017, Nakhon Ratchasima, Thailand, (In Thai)
12.	Tanawit Rungweerawong and Napaporn Piamsa-nga, 2015, Study of Flood Mitigation in Chao Phraya River Basin by using Flood Diversion Channel, The 20 th National Convention on Civil Engineering July 8-10, 2015, Chonburi, Thailand (In Thai)
13.	Paranyu Malipom and Napaporn Piamsa-nga, 2014, Runoff Estimation of Upper Ping River Basin from Land Use Change in Chiang Mai Using SWAT Model, The 19 th National Convention on Civil Engineering May 14-16, 2014, Khon Kaen, Thailand (In Thai)
14.	Prasert Lampakorn and Napaporn Piamsa-nga, 2009, Modelling of Flood Management Scenarios of Ping and Wang River Basins by INFOWORKS RS, The 6 th Kasetsart University Kamphaeng Saen Conference, December 8-9, 2009, pp.654-662. (In Thai)
15.	Supitsara Kietsuntisuk, Malee Sakulniyomporn, Napaporn Piamsa-nga, Pirawat Watanapongse and Punpiti Piamsa-nga, 2008, Information Framework on Research Competency Measurement for University, 12 th National Computer Science and Engineering Conference, November 20-21, 2008. (In Thai)
16.	Piyapong Rodratana Napaporn Piamsa-nga, 2008, The Study of Flood Alleviation of Chiang Mai City Area, The 13 th National Convention on Civil Engineering, May 14-16, 2008, Thailand. (In Thai)
17.	Surachai Lipiwattanakarn, Napaporn Ratanakhamakorn and Chukait Sappaisal, 2003, The Estimation of Pumping Discharge from East Bangkok Area, Kasetsart Engineering Journal, Issue 49, April-July 2003, pp.108-119. (In Thai)
18.	Surachai Lipiwattanakarn, Napaporn Ratanakhamakorn and Chukait Sappaisal, 2003, The Estimation of Roughness coefficient Using Area-Slope Method The 41 st Kasetsart University Conference, Febuary 3-7, 2003, pp.31-38. (In Thai)

Research Experiences

River Morphology

Project Title: A study and design of River Bank Protection of Mekong River, 1994.

- Analysis of the morphology of Mekong River along its 950-kilometer length using HASMOR model to identify risks of bank collapses.

River Basin Development

Project Title: A Feasibility Study of Environment Impact of Kruan-Kreng wetland, Songkhla Province, 1992.

- Analysis of Water Resources Development using a model of water demand in irrigation system and a model of reservoir operation.

Project Title: A Study of Potential of Prachinburi River Basin Development, 1993.

- Feasibility study on development of water resources

Project Title: A Study of Potential of Bangprakong River Basin Development, 1993.

- Feasibility study on development of water resources

Flood Protection and Drainage

Project Title: A Development of Pakpanang River Basin, 1993.

- Analysis of Flood Protection and Control System using two-dimensional flood flow model.

Project Title: A Master Plan of Flood Protection and Drainage System of Eastern Bangkok Metropolitan area, 1995.

- Design Rainfall of in the 700 square kilometers of eastern Bangkok
- Analysis of Water Levels of Chao-Phraya River in Metropolitan area of Bangkok

Project Title: A Detailed Design of Flood Protection in Phranakorn Si Ayuthaya municipal area, 1997.

- Design Rainfall
- Analysis of Possible Flood levels of Chao-Phraya River, in Ayuthaya Province
- Design of flood protection and drainage system

Project Title: A Detailed Design of Flood Protection in Samutprakarn Province, 1999.

- Design Rainfall
- Analysis of Possible Flood levels of Chao-Phraya River, in Samutprakarn Province

Project Title: The Management and Development of Large-scale Agricultural Area in Mitigation of Medium to Large Floods in the Chao

Phraya River Basin According to the Royal Initiative Pilot Project: Monkey Cheek in Bangban Area (1)", 2008.

- Flood management study and telemetering and warning system design

Project Title: The Feasibility Study of Development and Management of The Industrial Parks "Flood Problem in Chao Phraya-Tha Chin River Basin", 2012.

- Project manager

Project Title: The Advancing Co-Design Of Integrated Strategies With Adaptation To Climate Change In Thailand (Adap-T), 2016-2020.

- Researcher
- Analysis of rainfall in Bangkok Area for Flood analysis and design

Water Pipeline Development

Project: A feasibility of raw water pipeline construction in Prachinburi and Srakaew provinces

- A study of water resources
- A construction plan development of pipeline systems.

Hydrodynamic Model of River

Project: Hydrodynamic Flow Measurement in Chao-Phraya River Mouth

- Vice Manager in Technical Supports
- This project is royally initiated by His Majesty the King of Thailand. It is supported by three funding sources: Thailand Research Fund, Royal Irrigation Department, and the Royally-initiated irrigation project.

Telemetering System Design.

Project: Flood immigration at U-tapao river basin in Southern Thailand

- Flood immigration at U-tapao river basin in Southern Thailand

Project: The Water Resources Engineering and Water Impacts Studies of Hutgyi Hydropower Project, Myanmar

- Telemetering and warning system design