

## CURRICULUM VITAE

**Name :** SUCHARIT KOONTANAKULVONG

**Date of Birth :** December 6, 1955

**Nationality :** Thai



**Position Appointment :**

- Associate Professor at Faculty of Engineering Chulalongkorn University
- President of Technology Promotion Association (Thai-Japan) Association
- Water Resources Engineering Department Head
- Water Resources System Research Unit Head

**Education :**

- 1978 - Bachelor Degree in Chemical Engineering, Faculty of Engineering, Kyoto University, Kyoto, Japan.
- 1980 - Master Degree in Agricultural Engineering (in Civil Engineering), Faculty of Agriculture, Kyoto University, Kyoto, Japan.
- 1983 - Doctoral Degree in Agricultural Engineering (in Civil Engineering), Lab. of Water Use Engineering, Faculty of Agriculture, Kyoto University, Japan.

**Major experiences in Research**

- 1996-1997 - Kamphaengphet Groundwater Rehabilitation Study funded by Department of Public Works
- 1999 - Research on The possibility of Kra Channel Dredging – Physical Aspect - funded by Royal Thai government
- 2000-2002 - Groundwater Potential and Demand Study for GW Management in the Northern Part of Lower Central Plain funded by the Thailand Research Fund
- 2003- 2004 - Groundwater Monitoring in the north of Lower Central Plain and the development of Groundwater Data Linkage System
- 2004-2005 - The Assessment of Pasak Jolasid Dam Project (Effectiveness of Surface Water Management and Impacts on Groundwater)
- 2007-2008 - Project Manager and Researcher, Area-based Water Resources Management System Development Along With Decision Support System and Social Process in Rayong Province Area,

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- funded by Thai Research Fund.
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Consultant, National Trans-boundary Flood Issues Expert for Thailand, Mekong River Commission.
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An Evaluation of Flood Management and Alleviation Project in the Central Region of Thailand during 2006, funded by Royal Irrigation Department.
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The Risk Assessment of the Contamination in Groundwater Resource in Klangdong District Pakchong, Nakornrachasima Province, funded by Department of Groundwater Resource.
  - 2007-2008

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Assessment of Impacts on Enforcement of Laws on Establishment of Groundwater Conservation Fees in the Critical Zone of Bangkok Metropolis
  - 2007-2009

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Impact of Global Climate Change on Monthly Precipitation and Stream Flow in Thailand, Water Management in the Eastern Region
  - 2008-2009

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Analysis of Land Subsidence in Bangkok Metropolitan and its Vicinity Area
  - 2008-2009

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The Master Plan for Groundwater Resources and Environment Development and Conservation (2009 – 2012)
  - 2008-2009

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Water Resources Management Scheme by Implementing an Area-based Water Resources Information System together with Social Participatory Process in Rayong Province
  - 2009

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The Impact of Climate Change on Irrigation System and Adaptation Measures Phase I
  - 2009-2010

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Research Center project on Web based Provincial Water Planning System for Water Research Security
  - 2009-2010

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Improvement of Water Supply Infrastructure
  - 2010-2011

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The Impact of Climate Change on Irrigation System and Adaptation Measures Phase II
  - 2010-2011

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Comparative Studies on Development Strategies to adapt for the Nature Disasters due to Climatic Change in Thailand
  - 2010-2011

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The Water Resources Study for Strategic Water Management in Nan River Basin
  - 2010-2011

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Research Center Project on Web based Provincial Water Planning System for Water Resources Security Phase III
  - 2010- 2011

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A Study of the risk assessment of the population in the area of Industrial Pollution in Rayong

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|---------------|---|---|
| 2010-2011     | - | Adaptation Pattern on Water Management in Future in Flood Situation   |
| 2011-2012     | - | The Impact of Climate Change on Irrigation System and Adaptation Measures Phase I   |
| 2011-2012     | - | Adaptation Pattern on Water Management in Future in Flood Situation Phase II  |
| 2012-2013     | - | The Impact of Climate Change on Irrigation System and Adaptation Measures Phase III   |
| 2012-2013     | - | The Water Resources Study for Strategic Water Management in Nan River Basin-Water Management Simulation for Strategic Recommendations |
| 2012-2014     | - | Project Changes of Precipitation Extremes in River Basins in Thailand and China   |
| 2012-2013     | - | Research Center Project on Web based Provincial Water Planning System for Water Resources Security Phase III                          |
| 2012-2013     | - | Flood Hazard Map  |
| 2014          | - | Roadmap of Strategic Research Issue on Climate Change, Water, Land and Environmental Management                                       |
| 2014          | - | Adaptation Framework Establishment for National Adaptation Report (funded by GTZ)   |
| 2015- Ongoing | - | National Vulnerability and Adaptation Study (funded by UNEP)  |

#### **Employment :**

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| 1984-1986     | - | Lecturer at Department Of Civil Engineering, Faculty of Engineering, Chulalongkorn University |
| 1986-1996     | - | Assistant Professor at Department of Civil Engineering, CU                                    |
| 1996- Present | - | Associate Professor at Department of Water Resources Engineering, Chulalongkorn University    |
| 1989-1995     | - | Deputy Director of Chula Unisearch (Administration/ Business Development)                     |
| 1996-1998     | - | EIT's ISO9000 Committee Chairman  |
| 2000-2006     | - | Associate Dean  |
| 2011-Present  | - | Head of Water Resources Engineering Department  |

#### **Specialized Fields :**

- Water Resources System Design/Management and Hydraulic Modeling (Flood and Drainage, River Mouth Hydraulics, Groundwater)
- Impact Assessment and Adaptation due to Climate Change in Water Sector

### Major research achievements:

- Hanittinan P., Sriariyawat A., and Koontanakulvong S., “Sukhothai Flood analysis and its response under climate changes”, Proceeding of 10th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia (USMCA 2011), Chiang Mai, Thailand, October 2011
- Sucharit K., Thailand Floods 2011 –Causes and Long Term Measures with CC consideration, Proceedings on Natural Disasters and Climate Change in Asia, Nov 5-7, 2012 , Equatorial Hotel, Bangi, Malaysia.
- Koontanakulvong S., Sriariyawat A. and Pakoksung K., “Sukhothai Flood Risk Management under Changing Climate”, Proceeding of 2012 AIT-NUS-ITB-KU Joint Symposium on Human Security Engineering, Bangkok, Thailand, 19-20 November 2012
- Pakoksung K., Koontanakulvong S. and Sriariyawat A., “Satellite Data Application for flood simulation”, Proceedings of PAWEES 2012 International Conference, Bangkok, Thailand, 27-29 November 2012
- Sriariyawat A., Pakoksung K., Sayama T., Shigenobu T. and Koontanakulvong S., “Approach of Approach to Estimate the Flood Damage Cost in Sukhothai Province using Flood Simulation”, Journal of Disaster Research, Vol.8 No.3 June 2013, pp. 406-414
- Sucharit Koontanakulvong • Winai Chaowiwat • Tetsuro Miyazato, Climate change’s impact on irrigation system and farmers’ response: a case study of the Plaichumpol Irrigation Project, Phitsanulok Province, Thailand, Jour. Paddy Water Environ DOI 10.1007/s10333-013-0389-8, Springer, published online Aug 17, 2013.
- Sucharit Koontanakulvong and Paisarn Santitamnanon, Lessons Learned And Information Technology Roles In Thailand Floods 2011, Proc. Int Conf on Human Technology Conference, organized by IEEE-R10, Sendai, Japan, Aug 28, 2013.
- Sucharit Koontanakulvong , Kwanchai Pakoksung , Impact of Land Use Change on Runoff Volume in Upper Nan Basin Area, Proc. 2<sup>nd</sup> EIT Int Conf on Water Resources Engineering, Sep 5-6, 2013, Chiengrai, Thailand
- Sucharit Koontanakulvong, Kwachai Pakoksung, Impact of Land Use Change on Sediment Flow Pattern in Nan Basin, Thailand, Proc. 2<sup>nd</sup> Int Conf on Advanced Technology for River Management, Nov 7-9, 2013, Seoul, Korea.
- Sucharit Koontanakulvong, Piamchan Doungmanee, Piyatida Hoisungwan, Thailand’s Water Security Situation in the context of world and ASEAN, 11<sup>th</sup> Kovacs Colloquium, UNESCO Headquarters, Paris, June 16-17, 2014.

**Books:**

- Sucharit Koontankulvong, Short Term Measures after Thailand Floods 2011, in the Information Analysis Report No. 22, Institute of Developing Economics, pp. 181-201, Aug 2013.
- Sucharit Koontanakulvong, The Chao Phraya Floods 2011, in the book of Extreme Natural Hazards, Disaster Risks and Societal Implications, Cambridge University Press, ISBN: 978 1 107 033 863, pp 281-287, April 2014.

**Awards:**

- Excellent Research Award on the Application of Science and Technology in water management at community level from Thailand Research Fund 2007
- Excellent Research Award on Community Water management via information system from Senate Parliament Council 2012
- Sak Intania Award 2013 from the Faculty of Engineering, Chulalongkorn University.

**Collaborations with international organizations**

1. ASEAN University Network/Seed net (in the Natural Disaster Aspect)
2. Collaborative Education Program on Disaster Resilience City (with Kyoto University)
3. Chulalongkorn University Representative with United Nations University (UN-CECAR)
4. IPCC Report readers under ONEB Thailand (WG2)
5. Chief Coordinator for ASEAN Academic Network on Water Resources and Climate Change
6. (under UNESCO-Chair)
7. Team Leader for National Communication Report Preparation on Vulnerability and
8. Adaptation Assessment (UNEP Project with ONEB, Thailand)