FACULTY PROFILE

Title	:	Dr.
Name	:	Thammarat Koottatep
FOS	:	Environmental Engineering and Management Program
Affiliation	:	Associate Professor
Location	:	Room W129, Academic Building
Phone	:	662-524 6188
Fax	:	662-524 5625
Email	:	thamarat@ait.asia

EDUCATIONAL BACKGROUND

1. D.Eng. (Water and Wastewater Engineering), Asian Institute of Technology (AIT), Bangkok, Thailand (1999)
2. M.Eng. (Water and Wastewater Engineering), Asian Institute of Technology (AIT), Bangkok, Thailand (1993)
3. B.Eng. (1st Rank) (Environmental Engineering), Chiang Mai University (CMU), Chiang Mai, Thailand (1991)

RESEARCH INTERESTS

1. Sustainable decentralized wastewater treatment systems
2. Waste/wastewater reuse and recycle
3. Innovative sanitation systems
4. Fecal sludge management
5. Uses of constructed wetlands for waste/wastewater treatment

TEACHING

1. Environmental Health and Sanitation
2. Solid Waste Management
3. Design of Water Supply and Wastewater Systems
4. Wastewater Collection and Sewer Design Model

SELECTED PUBLICATIONS

1. M. G. Sherpa, C. Lüthi and T. Koottatep (2012), Applying the Household-Centered Environmental Sanitation planning approach: a case study from Nepal, Journal of Water, Sanitation and Hygiene for Development, Vol. 2, No. 2, pp. 124 – 132, doi: 10.2166/washdev.2012.021
2. Yajima, A. and Koottatep, T. (2010), Assessment of E. coli and Salmonella spp. infection risks associated with different fecal sludge disposal practices in Thailand, J. of Water and Health, IWA Publishing, United Kingdom, 08.2, doi: 10.2166/wh.2009.310
3. Panuvatvanich, A., Koottatep, T., Koné, D. (2009), Influence of bed configuration and impounding regime on nitrogen transformation in vertical-flow constructed wetlands treating faecal sludge. J. of Water Research. doi:10.1016/j.watres.2009.03.029
4. Laugesen, C.H., Fryd, O., Koottatep, T. and Brix, H. (2009), Sustainable Wastewater Management in Developing Country: New paradigms and Case Studies from the Field, ASCE Press, Virginia, 252 p.
5. Koottatep T. (2010), Dealing with sanitation, environmental dynamics and disparities: Research partnerships in Southeast Asia. In: Hurni H, Wiesmann U, editors; with an international group of co-editors. Global Change and Sustainable Development: A Synthesis of Regional Experiences from Research Partnerships. Perspectives of the Swiss National Centre of Competence in Research (NCCR) North-South, University of Bern, Vol. 5. Bern, Switzerland: Geographica Bernensia, pp 331–341.

ONGOING AND COMPLETED PROJECTS

1. Sustainable Decentralized Wastewater Management in Developing Countries: Design, Operation and Monitoring, the Bill & Melinda Gates Foundation, (USD 4,999,722, 2011 – 2016)
2. Stimulating Local Innovation on Sanitation for the Urban Poor in Sub-Saharan and Southeast Asia, Sub-grant under the framework of UNESCO-IHE sponsored project of the Bill & Melinda Gates Foundation, (USD 870,812, 2011 – 2016)
3. National Center of Competence in Research (NCCR) North – South Program, Swiss National Science Foundation and Swiss Agency for Development and Cooperation, Switzerland, (CHF 540,000, Phase 3: 2009 – 2013)
4. Wastewater Reuse in Bangkok City, Bangkok Metropolitan Administrative (BMA), Collaborating with Kasetsart University, (THB 4,000,000, 2011 – 2013)
5. Affordable Sanitation as an Adaptive Strategy to Emerging Waterborne Diseases due to Climate Change, Asia-Pacific Network for Global Change Research (APN), (USD 44,550, 2011 – 2012)
6. Assessment of Fecal Sludge Rheological Properties, the Bill & Melinda Gates Foundation (BMGF), (USD 50,240, 2011 – 2012)

AWARDS AND HONOURS

1. “Outstanding Environmental Engineering Alumni” of the 25th Anniversary of the Department of Environmental Engineering, Faculty of Engineering, Chiang Mai University, Thailand, 1 December 2006
2. “Bursary Award at the WaterMicro 2009” of the 15th International Symposium on Health-Related Water Microbiology, Naxos, Greece, May 31 – June 5 2009, organized by the IWA Study Group on Health-Related Water Microbiology.

PROFESSIONAL AFFILIATIONS

1. Ordinary Member, Thai Academy of Science and Technology Foundation
2. Member, Specialist Group on the Use of Macrophytes in Water Pollution Control, International Water Association (IWA)
3. Member, Specialist Group on Waste Stabilization Ponds, International Water Association (IWA)
4. Member, Specialist Group on Small Water and Wastewater Systems, International Water Association (IWA).
5. Member, Environmental Engineering Association of Thailand (EEAT)
6. Member, The Engineering Institute of Thailand Under HM The King's Patronage (EIT)
7. Member, Decentralized Water and Wastewater Systems International Network (DEWASIN)
8. Key Resource Person, ASEAN Regional Center of Excellence in Million Development Goals (ARCMDG), AIT

RESEARCH KEYWORDS

1. Sustainable sanitation
2. Decentralized wastewater treatment systems
3. Waste/wastewater reuse and recycle
4. Constructed wetlands