

HIEN VO THI DIEU, M.Eng

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Research Interest

- Wetland, natural treatment system, biological processes, Membrane separation processes, water and wastewater treatment processes, solid waste treatment and management.

Professional Experience

- 2013-present: Research Assistant at Faculty of Environment, HCMC University of Technology. Team leader of “Toward green city through application of a wetland roof system coupling with domestic wastewater treatment” project funded by KECO, Korea.
- 2007-2012: Specialist, TRACODI company, HCMC, Viet Nam
 - Research on the operation of wastewater/water treatment systems for Phuong Nam Kenaf Pulp Mill Project;
 - Design of documents according to ISO 17025 for Center of TRACODI - LOTUS environmental treatment and analysis;
 - Design of waste treatment system for domestic waste treatment mill project.
- 2010-2012: Research Assistant – Master student, Faculty of Environment, HCMC University of Technology (HCMUT), Viet Nam.
 - Development of Wetland roof systems treating septic tank effluent.
- 2006-2007: Research Assistant, Dept. of Environmental Engineering, Faculty of Technology, Can Tho University, Viet Nam.
 - Evaluation of treatment efficiency for the leachate of Chau Thanh landfill (Can Tho city, Viet Nam) by Power Activated Carbon Technology.

Education

- 2010-2012: ME, Environmental Engineering, Environmental Engineering, Faculty of Environment, HCMC University of Technology (HCMUT), Viet Nam.
- 2002-2007: BE, Environmental Engineering, Can Tho University, Viet Nam.

Selected Publications

International Journals:

- 1) Thanh, B.X., Tin, N.T., Van, P.T.H., **Hien, V.T.D.**, Dan, N.P., Koottatep, T. (2013). Performance of wetland roof with *Melampodium paludosum* treating septic tank effluent, *Desalination and Water Treatment*, in press, 2013,1-7, (IF = 0.752; ISSN: 1944-3994).
- 2) Thanh, B.X., **Hien, V.T.D.**, Dan, N.P., Van, P.T.H., Tin, N.T. (2012). Performance of wetland roof treating domestic wastewater in the tropic urban area, *Journal of Water*

Sustainability, 2(1), 79-86. (ISSN: 1839-1516).

International Conferences:

- 1) Thanh, B.X., **Hien, V.T.D.**, Van, P.T.H., Dan, N.P., Koottatep, T. (2012). Wetland roof with *Melampodium Paludosum* for domestic wastewater treatment. The fifth annual conference on the Challenges in Environmental Science and Engineering 2012 (CESE 2012), p.46, 9th-13rd September, RACV, Melbourne, Australia. ISBN: 978-0-646-58149-1.
- 3) **Hien, V.T.D.**, Thu, T.N.T., Mai, T.T.T., Tin, N.T., Van, P.T.H., Thanh, B.X. (2011). Application of Wetland Roof for Domestic Wastewater Treatment: Evaluation of Wastewater Treatment Efficiency of Plants at Different Hydraulic Loading Rates, Minamata International Symposium On Environment and Energy Technology (MISSION 2011) December 6th – 8th, 2011, p. 149-155. Kumamoto, Japan.

National Journals:

- 1) **Hiền, V.T.D.** & Thành, B.X. (2011). Ứng dụng mô hình đất ngập nước trên mái (Wetland roof) xử lý nước thải sinh hoạt: Đánh giá hiệu quả xử lý nước thải của một số thực vật tại các tải trọng thủy lực khác nhau [Application of wetland roof treating domestic wastewater: Evaluation of treatment performance of different plants at hydraulic loading rates], *Tạp Chí Khoa Học Công Nghệ Việt Nam [Journal of Viet Nam Academy of Science and Technology]*, 49(5C), 28-36. ISSN: 0866 708X.

Project Involvement

- 1) Thanh, B.X., **Hien, V.T.D.** (2011-2013). Ứng dụng mô hình đất ngập nước trên mái (mái xanh) xử lý nước thải sinh hoạt: Một giải pháp giảm thiểu ảnh hưởng của biến đổi khí hậu [Application of wetland roof for domestic wastewater treatment: A solution for climate change mitigation], NAFOSTED, Ministry of Science & Technology – Viet Nam (Project Investigator).

Training workshop attendance

- Training course on Internal Evaluation of Laboratory Management System according to ISO 17025:2005 standard (01-02 Mar, 2012).
- Training course on Application of Clean Production into Environmental Management System according to ISO 14001:2004 standard (20 – 21 Oct, 2011).
- Workshop on Implementing Science-based Adaptation Strategies to Climate Change. (18 Nov, 2011). South Environment and Hydrometeorology Sub-Institute, Viet Nam and Brandenburg Cottbus Technology of University, Germany.
- Training course on Composting – An Introduction. (12 Oct-13 Nov, 2004). DAAD Short Term Lectureship, University of Can Tho, Viet Nam and Bonn, Germany.

Skills

- Language: Vietnamese (Native); English (TOEIC 555); French (DELTA A1, 2003)
- Computer: Autocad, Ms Office.

Awards

- Mekong 1000 Program award (2007). Can Tho University, Viet Nam.