

## **Information on Doctoral thesis of Fellows Tran Anh Tuan**

Official thesis title: Urban water conservation in Hue city based on the water demand side management (DSM)

1. Full name: Tran Anh Tuan

2. Sex: Male

3. Date of birth: March 23, 1967

4. Place of birth: Phuoc Vinh, Hue

5. Admission Decision number 2394/SĐH, dated June 29, 2007 of President of Vietnam National University.

6. Changes in academic process: No

7. Official thesis title: Urban water conservation in Hue city based on the water demand side management (DSM)

8. Major: Environment and Sustainable Development

9. Code: Pilot Programme

10. Supervisors:

Prof. Dr. Ngo Dinh Tuan

Assoc. Prof. Dr. Le Van Thang

11. Summary of the new findings of the thesis:

- The thesis is considered the first systematic study on the urban water demand side management in Vietnam.

- It initially develop scientific foundations for measures of urban water demand side management in Vietnam as a whole and particularly in Hue City.

- The thesis successfully applies the DPSIR Framework in a systematic approach of socio-economic and environmental aspects for the purposes of pointing out adverse impacts of increased urban water demand.

12. Practical applicability

- A part of the thesis' literature review has been used by the MOET for the awareness raising on environment and environmental protection.

- A number of DMS measures proposed in the thesis has been used by the Low Carbon Programme, a joint project between Hue city and AIT (Thailand).

### 13. Further research directions

- To conduct advanced Cost/Benefit Analysis for measures on urban water DSM concerning wastewater treatment, associated energy use and other socio-economic issues to clarify the economic benefits of urban water DSM;

- To study some aspects on social issues and humanity such as culture, religions, thrifty lifestyle, etc. to initiate and promote "consumption ethics";

- To study the marketing issues for water efficient appliances available in Hue city with an aim of supporting the promotion of urban water conservation;

- To do the SWOT Analysis for proposed urban water DSM measures for converting the outcomes of SWOT Analysis into appropriate activities.

### 14. Thesis-related publications

- Pham Khac Lieu, Tran Anh Tuan, Nguyen Bac Giang (2011), "Current status of public water access and use in rural area of Thua Thien Hue province: case studies of Dien Loc, Quang Ngan and Quang Tho communes", Hue University's Journal of Science 69 (6), tr. 65-73.

- Le Van Thang, Tran Anh Tuan (2008), "Enhancement of water demand side management for adapting to water scarcity in Central Coastal Vietnam", Proceedings of the third International Workshop on Vietnamese Studies, pp. 499-500.

- Tran Anh Tuan (2010), "Urban Water Supply in Thua Thien Hue and its adverse impacts on the environment", Proceedings of the second National Workshop on the environment and sustainable development at VNU Center for Natural Resources and Environmental Studies, pp. 191-201.

- Tran Anh Tuan (2009), "Management of Urban Water in Vietnam", Journal of Natural Resources and Environment, Ministry of Natural Resources and Environment (12), pp. 53-56.

- Tran Anh Tuan (2009), "Enhancement of Demand Side Management for Urban Water Conservation in Hue city", Journal of Water Resources, Water Resources Association (4), pp. 31-35.

- Tran Anh Tuan, Le Thi Tinh Chi (2009), "Adverse Impacts of Increased Urban Water Demand in Thua Thien Hue province". Journal of Science, Special Issue on Natural Science, Hue University (53), pp. 157-162.