

## Information on Doctoral thesis of Fellows Tran Thien Cuong

1. Full name: Tran Thien Cuong
2. Sex: Male
3. Date of birth: 30/03/1976
4. Place of birth: Vinh Phuc
5. Admission decision number: 2259/SĐH, Dated: 07/12/2006 by President of Vietnam National University, Hanoi
6. Changes in academic process: None
7. Official thesis title: Investigation impacts of shrimp farming models on water and sediment of shrimp ponds in Thai Binh province's coastal area
8. Major: Soil and Water Environment
9. Code: 62850205
10. Supervisors:
  - Prof.Dr. Le Duc
  - Prof.Dr. Hoang Xuan Co
11. Summary of the new findings of the thesis:
  - The thesis has conducted research, analysis and assessment of the status of water and sediment quality in shrimp ponds in the coastal area of Thai Binh province. In this research, the temporal status was assesmented by the different farming methods.
  - The thesis was calculated pollutants concentration in wastewater from shrimp ponds and streams in areas such as waste canals, estuaries and coastal zone. It is scientific basis for assessing the level of pollution that caused by shrimp farming activities create on the environment area.
  - Results shown that the concentration of pollutants increasing in the ponds in corresponding time and the degree of intensification. In particularly, the contaminants of pollutants was increased in sediments.
  - Process improvement and flush activities after each crop are not much improving the environmental quality in ponds. The pollutants concentration in water and sediment only really improvement when conducting sediment dredged up from the bottom of ponds.
12. Practical applicability, if any:

- The results will be the basis of scientific and practical significance for the planning and development of shrimp farming in the coastal area.

- Main results is an important base to help the managers and owners of the shrimp farms and find out the cause of productivity decline in shrimp after each crop.

13. Further research directions, if any:

- To finding the solution for wastewater treatment of shrimp ponds before being discharged into the environment.

- To finding the solution for sediment treatment in ponds whenever conducting dredging dress

14. Thesis-related publications:

- Tran Thien Cuong, Le Duc (2005), "Assessment of effects of some shrimp hatching activities on quality of soil environment in Thai Thuy coastal area, Thai Binh province", *Vietnam Soil Science* (22), pp. 120-124

- Tran Thien Cuong, Vu Thi Cuc, ngo Duy Bach, Cao Thi Phuong Ly, Nguyen Thi Thu Quynh, Hoang Thi Thu Duyen (2006), "Assessment of effects of some shrimp hatching model on the quality of water environment in Thai Thuy coastal, Thai Binh province, working-out methods for treatment and diminish of pollution", *Vietnam Soil Science* (26), pp. 101-106

- Tran Thien Cuong (2009), "Research on the accumulation of some heavy metals in the shrimp farming ponds in coastal of Thai Thuy District, Thai Binh province", *Vietnam Soil Science* (32), pp. 122-125