

### **Information on Doctoral Thesis of Fellows Nguyen Ngoc Anh**

1. Full name: Nguyen Ngoc Anh
2. Sex: Male
3. Date of birth: 18<sup>th</sup> November 1982
4. Place of birth: Ha Noi
5. Admission decision number: Decision 5429/QĐ-SĐH, dated 30/10/2008 by the President of Vietnam National University, Ha Noi.
6. Changes in academic process: None
7. Official thesis title: Characteristics and Litho-dynamical evolution of surface sediments in the Hai Phong - Quang Ninh coastal area.
8. Major: Lithology
9. Code: 62 44 57 01
10. Supervisors:

Assoc. Prof. Dr. Nguyen Van Vuong

Assoc. Prof. Dr. Tran Duc Thanh

#### 11. Summary of the new findings of the thesis

(1) - Surface sediments in the Hai Phong - Quang Ninh coastal area consisting mainly of quartz and rock fragments, are subdivided into eleven sedimentary categories in which silty sand lying in the northern region of the Cat Ba is the most abundant sediment in the study area while gravels including nearshore terrigenous and offshore laterite gravel possessed the least distributed area. The sedimentary accumulation tendency followed rule of coarse to fine grain size from island outward. The concentrations of  $\text{SiO}_2$  and  $\text{Fe}_2\text{O}_3$  in surface sediments tend to increase gradually from nearshore to offshore, whereas the concentration of CaO tends to decrease gradually from nearshore to offshore.

(2) - Litho-dynamical evolution of surface sediments in the Hai Phong - Quang Ninh coastal area recorded through eighteen sedimentary facies occurring in four distinguished periods as following: a) period of late Pleistocene marine transgression (called the Vinh Phuc transgression); b) period of late Pleistocene marine regression (consisting of one sedimentary facies); c) period of Flandrian transgression (consisting of four sedimentary facies) and d) period of regression after Flandrian transgression (post-Flandrian time) to present day (consisting of

thirteen sedimentary facies). Sedimentary materials in the Hai Phong - Quang Ninh coastal area tend to migrate southward during the late Pleistocene transgression (the Vinh Phuc transgression) to the Flandrian transgression. From the post-Flandrian time to the present day, sedimentary materials tend to migrate eastward and southeastward of the study area, whereas, sedimentary materials in Bai Tu Long bay tend to spread northeastward and southwest-ward along the shape of the bay.

12. Practical applicability, if any:

This dissertation contributes to establish the axioms for exploring marine placers in Quaternary formations of Vietnam.

13. Further research directions, if any: Applying sequence stratigraphy on studying Quaternary sediments in the Hai Phong - Quang Ninh coastal area.

14. Thesis-related publications:

[1] Nguyen Ngoc Anh (2008), "A computer program to classify sediments based on the gravel-sand-silt-clay ratios", *Proceedings of first symposium: Marine geology & Sustainable development of Viet Nam*, pp. 716 - 720.

[2] Tran Duc Thanh, Nguyen Ngoc Anh, Nguyen Huu Cu, Dinh Van Huy, Dang Hoai Nhon, Nguyen Thi Kim Anh (2008), "Main geosystematic aspects of Tien Yen - Ha Coi bay", *Marine Resources and Environment* Vol. XIII, pp. 5 – 27.

[3] Nguyen Ngoc Anh (2009), "Automated transformation of weight to number frequency data in size distribution of clastic sediments", *Marine Resources and Environment* Vol. XIV, pp. 107 - 110.

[4] Nguyen Ngoc Anh (2009), "Automated calculation of grain size distribution parameters", *Marine Resources and Environment* Vol. XIV, pp. 111 - 114.

[5] Nguyen Ngoc Anh (2009), "Computer program for describing the size distribution of sediments", *Scientific Workshop 50 Year Anniversary of Water Resources University*, pp. 37 – 43.

[6] Nguyen Ngoc Anh, Nguyen Van Vuong, Tran Nghi (2011), "An interpretation of depositional environment hydrodynamics based on the grain size distribution of sands", *Fifth national scientific symposium on marine science and technology*, section: Geography, geology and geophysics, pp. 374 - 381.

[7] Nguyen Ngoc Anh, Nguyen Van Vuong, Tran Nghi, Tran Duc Thanh (2011), "Grain size statistical features of sediments in the Bai Tu Long bay", *Fifth national scientific symposium on marine science and technology*, section: Geography, geology and geophysics, pp. 390 - 396.

[8] Nguyen Ngoc Anh, Nguyen Van Vuong (2012), "Computer program for analysing sediment transport direction: Application to the Hai Phong - Quang Ninh coastal marine area", *Journal of Marine Science and Technology* Vol. 12(1), pp. 17 - 26.

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