

## Information on Doctoral Thesis of Fellows Le Hoai Nga

Vietnamese

Organic petrological and geochemical characteristics of coal and coaly mudstone in northern Song Hong Basin

1. Full name: LE HOAI NGA
2. Sex: Female
3. Date of birth: May, 5<sup>th</sup>, 1979
4. Place of birth: Hai Ba Trung - Ha Noi
5. Admission decision number: No 912/QĐ-SĐH dated: July, 7<sup>th</sup>, 2009 by President of The VietNam National University, Ha Noi.
6. Changes in academic process: No
7. Official thesis title: ***Organic petrological and geochemical characteristics of coal and coaly mudstone in northern Song Hong Basin.***
8. Major: Mineralogy and Geochemistry
9. Code: 62.44. 02. 05
10. Supervisors: Prof.Dr. Tran Nghi  
Dr. Tran Dang Hung
11. Summary of the new findings of the thesis

The dissertation showing that:

Humic coal in Miocene coal-bearing strata in Northern Song Hong contain mainly (>73%) huminite/vitrinite maceral, 3,87-17,7% of liptinite maceral and 2,8-10,4% inertinite maceral; framboid pyrite mineral is dominantly. Coal are in sub-bituminous to high volatile bituminous rank. Coal deposited in lower delta plain; humic derived scrub, herbaceous and woody material.

Coal and coaly shale in Miocene coal-bearing strata in Northern Song Hong show good to very good organic potential. Total organic carbon content are extremely rich; with high generating potential of both oil and gas. Kerogens are mainly type III and mix of type III-II. At present, coal and coaly shale in Miocene coal-bearing strata in Northern Song Hong are mature and reach to oil window.

12. Paratical applicability, if any:

- Indicating the depositional environment of coal and coaly mudstone; the component and original of organic matter, and its change in thermal maturation evolution.
- Indicating the organic potential of coal and coaly mudstone in Miocene sediment in northern Song Hong basin.
- This study has confirmed significant role of terrestrial sediment in petroleum system in study area.
- This study has suggested the applications of organic petrology for petroleum exploration in Vietnam

13. Further research directions, if any

- Study focusing on application of coal petrology in oil and gas discovery and unconventional resources discovery.
- Specific studies about coal petrology, palynology, ecological ... to interpret peat-forming mine.

14. Thesis-related publications:

- Eng. Nguyen Thi Bich Ha, **Ms. Le Hoai Nga**, Eng. Do Manh Toan, Eng. Ho Thi Thanh, Eng. Phi Ngoc Dong (2011), "Geochemical modeling for Song Hong Basin", *VietNam Petroleum Journal*, 3(1), pages 28-38.
- **Ms. Le Hoai Nga**, Eng. Phi Ngoc Dong, Eng. Ho Thi Thanh, Ms. Ha Thu Huong, Ms. Nguyen Thi Bich Hanh, Ms. Nguyen Thi Thanh (2012), "Maceral composition in Miocen coal/claystone well 102-CQ-1X Song Hong basin", *VietNam Petroleum Journal*, 1(1), pages 33-39.
- **Ms. Le Hoai Nga**, Dr. Vu Tru. Eng. Phi Ngoc Dong, Ms. Nguyen Thi Bich Hanh (2012), "Peat forming environment and maceral composition in Miocen coal well GK 01-KT-TB-08 in Ha Noi trough", *VietNam Petroleum Journal*, 5(1), pages 31-37.

Filename: Information on Doctoral Thesis of Fellows Le Hoai Nga  
Directory: C:\Users\VietHung\_BND\Desktop  
Template: C:\Users\VietHung\_BND\AppData\Roaming\Microsoft\Templates\Normal.dotm  
Title: TrÝch yÕu luËn ,n  
Subject:  
Author: NguyenHieu  
Keywords:  
Comments:  
Creation Date: 1/3/2014 9:58:00 AM  
Change Number: 18  
Last Saved On: 1/11/2015 7:01:00 PM  
Last Saved By: VietHung\_BND  
Total Editing Time: 84 Minutes  
Last Printed On: 1/11/2015 7:10:00 PM  
As of Last Complete Printing  
Number of Pages: 2  
Number of Words: 455 (approx.)  
Number of Characters: 2,594 (approx.)