

Reform of Training for Surveying and Mapping in the Period of Integration into the World

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SUMMARY

At the beginning of the 21st century, all nations in the world are facing such global problems as environmental pollution, the mitigation of natural disasters, global climate change, exhausted mineral resources, lack of clean water, foodless and poverty. The National Spatial Data Infrastructure (NSDI), a component of the Global Spatial Data Infrastructure (GSDI), plays very important role in creating a model of the Real World. The people can use this model to monitor all human activities, to control exploitation of natural resources and environmental protection, to ensure sustainable development of country.

It is well known that survey and mapping work is the process of spatial data production to set up GSDI and NSDI on the basis of accepted globally data standards. In current time, the analog technology of survey and mapping has already been changed to the digital technology. The real world has become closer, the distance between people has become shorter in the Real World model of GSDI. Under this point of view, the digital concept of survey and mapping was created, which required a new concept of training for the digital surveying and mapping. In implementation practice, several universities in Vietnam have decided to open the training on Geomatics or Geoinformation instead of traditional training on survey and mapping.

In association with training of surveyors on technology, spatial data production, this training should be focused on several applications of GSDI/NSDI to support sustainable development planning, to ensure decisions making in leading works, to facilitate dialogs between governments and people, to forecast natural/human disasters, to monitor impacts of development on social and environmental sustainability, etc.

For those who work in the surveying and mapping in Vietnam to involve actively and effectively in such problems, it is necessary to make reformation in training for surveying and mapping in the current period when the country is integrating into the world economy.

BIOGRAPHICAL NOTES

DANG NAM CHINH (born 1950)

Mr. Dang Nam Chinh holds surveying engineer degree in 1974 at the Hanoi University Mining and Geology (HUMG), and PhD degree in the field of geodesy in 1990 at the University of Science and Technology AGH, Cracow, Poland.

Since 1975, Dr. Dang Nam Chinh has started to work as the lecturer of Geodesy and Hydrographic Survey for the Hanoi University of Mining and Geology (HUMG). In 2004, Dr. Dang Nam Chinh has been elected as Dean of the Faculty of Surveying and Mapping, HUMG, and he is working in this post up to present.

Dr. Dang Nam Chinh is experienced over 30 years working in the field of geodesy, concentrated on GPS application for geodesy, geodetic computation, hydrographic survey.

VO CHI MY (born 1948)

Mr. Vo Chi My holds Master of Science degree in the field of Surveying in 1973 at the University of Science and Technology AGH, Cracow, Poland. After 14 years, he holds the PhD title in the same University (1987).

Since 1974, Dr. Vo Chi My has started to work as the lecturer of Mine Surveying for the Hanoi University of Mining and Geology (HUMG). In 1993, he has promoted to the post of Head of Mine Surveying Department, Faculty of Surveying and Mapping, HUMG. In 1998, he worked for the HUMG as director of the International Cooperation Department. Since 2000 to present, he has worked for the HUMG as the Head of Mine Surveying Department, Dr. Vo Chi My is experienced over 30 years working in the field of surveying and mapping with main researches focused on mine survey, land survey and environment monitoring.

Dr. Vo Chi My is a Presidium member of the International Society of Mine Surveying (ISM) and Chairman of Vietnam Society for Mine Surveying. He is Vice-President of the Vietnam Association of Geodesy, Cartography and Remote Sensing, in charge of science, technology and international cooperation, and a presidium member of the Vietnam Mining Association.

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