

Penprapa Aimpetch 2014: The Promotion of View of Nature of Science by History of Science Club Activities: A Case Study of a Regional Science School. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis Advisor: Assistant Professor Pongprapan Pongsophon, Ph.D. 192 pages.

This case study research aimed to examine the effect of History of Science Club (HSC) activities on participants' view of nature of science (NOS) in a regional science school (N=28). The HSC was a new extra curricular activity, designed and developed to promote the consensus views of nature of science applying explicit approach to teach NOS. The main learning strategies comprised reading a short history of science story and conducting historical investigation. The target tenets of NOS included Tentativeness, Empirical basis, Subjectivity, Creativity, Social/cultural embeddedness, Observations and inferences, Theories and laws, Scientific Method and Characteristic of Scientists. VNOS-C and DAST were the research instruments administered before and after the intervention. The view of NOS were categorized into three groups according to the degree of congruence with the consensus views of NOS; Informed, Transitional and Naïve views. For a certain tenet of NOS, the pre and post percentages of each category were compared. The triangulation technique was used to increase the trustworthiness of the findings. The findings indicated the overall improvement of NOS views. The tenet of NOS that developed the most was Scientific Method, while Subjectivity was the least improved one.

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