

41th Conference ASERA
(Australian Science Education Research Association)

The Development of a Conceptual Change Based Website to Enhance
Science/Math Teachers' Inquiry Teaching Competence

Yu, C. C. ; Tuan, Hsiao-Lin; Chin, C. C. ; Cheng, P. Y. ; Lai, C. C.

Abstract

The purpose of this study is to build up a website which concentrated on conceptual change and social constructivist learning to enhance science/math teachers in developing their inquiry teaching competence. Thirty three science/math teachers in high schools went through the website and filled out the questionnaire, they perceived positive agreement of the website in enhancing their inquiry teaching competency ($M=3.37$, $SD=0.86$). In the second stage, thirty in-service science/math teachers enrolled in an inservice teaching course which used the web to learn inquiry teaching. By the end of the course, they turned in their written feedback about this website. The Mentoring Assisted Inquiry Teaching [MAIT] questionnaire result in relation to their perception of the web shows that most participants were satisfied of the operation, content, interaction and accessibility of the website ($M=3.69$, $SD=0.79$).

Key words : Inquiry teaching; Digital learning environment