



Contribution ID: 68

Type: Poster Presentation

A comparative analysis of first year physics student expectations at the University of the Western Cape and Military Academy

Wednesday, 10 July 2013 17:40 (1 hour)

Abstract content
 (Max 300 words)

Abstract

The Maryland Physics Expectations Test (MPEX) is a psychometric scale that employs questionnaires and used to study the attitudes, beliefs, and expectations of students towards learning physics [1]. The survey has been validated through application to a number of institutions in the United States and around the world. In this survey student responses are categorised as either favourable or unfavourable as determined by the standard responses given by an expert control group [1]. In this paper a comparison of student expectations through this survey was conducted on the first year algebra class students at both the Military Academy's department for Military Physics and University of the Western Cape Physics department. The survey was administered in conjunction with the Force Concept Inventory in both groups before the commencement of the semester and towards the end of the semester. This paper will present preliminary findings of the survey.

References

[1] C.J. Omasits and D.J. Wagner. 2006. Investigating the Validity of the MPEX Survey. AIP Conference Proceeding, Vol. 818 Issue 1, p145-148.

Apply to be
 considered for a student
 award (Yes / No)?

no

Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?

yes

Primary author: Dr JACOBS, Mkhululi (Stellenbosch University)

Co-authors: Mr SEHONE, Alfred (Stellenbosch University); Dr HERBERT, Mark (University of the Western Cape); Mr MALAZA, Vusi (Stellenbosch University)

Presenter: Dr JACOBS, Mkhululi (Stellenbosch University)

Session Classification: Poster2

Track Classification: Track E - Physics Education