

Canadian Association of Physicists

Association canadienne des physiciens et physiciennes

Contribution ID: 1953

Type: Oral (Non-Student) / Orale (non-étudiant(e))

Impact of Reflective Writing and Labatorials on Student Understanding of Force and Motion in Introductory Physics

Wednesday 13 June 2018 14:45 (15 minutes)

We examine a way to deal with alternative student conceptions about force and motion in a university introductory physics course. The course combines Reflective Writing, an activity that engages students in textual material metacognitively, and Labatorials, an in-class active learning intervention. The analysis is based on both pre- and post- interview statements, to give a picture of the students'initial state and evolution in their understanding of force and motion. All interviewees mentioned reflective writing as one of the activities that helped them move from their knowledge about these two concepts at the beginning of the semester to their present ideas. Semi-structured interviews and student writing provide evidence of conceptual change

Authors: KALMAN, Calvin (Concordia University); Dr SOBHANZADEH , Mandana (Mount Royal University); Dr LATTERY , Mark (University of Wisconsin, Oshkosh)

Presenter: KALMAN, Calvin (Concordia University)

Session Classification: W3-1 Creating Authentic Physics Learning Experiences (DPE) | Créer d'authentiques expériences d'apprentissage en physique (DEP)

Track Classification: Physics Education / Enseignement de la physique (DPE-DEP)