



Contribution ID: 427

Type: Oral Presentation

Non-specialist talk - Cool science does not have low kinetic energy

Wednesday, 5 July 2017 11:30 (40 minutes)

In a recent interview, Stirling Prize winning Architect Amanda Levete said that when she was young, in the sixties, being naughty was considered cool but in the 21st Century it is cool to be clever. It is contended in this paper that there are different kinds of 'clever'. In the age of Google, we argue, it is not fact knowledge but rather creative problem solving that attracts a student to science. We review a number of example activities in Newtonian mechanics, chemical dynamics and gas laws and show ways in which a particular experimental structure can captivate a student's imagination. We conclude with a short philosophical discussion on the need for an educational paradigm shift in 2017, where, as it is remarked at ShiftHappens.com: we are now educating students to solve problems we don't have, to do jobs that don't exist and to use technology that has not been invented.

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

No

Level for award (Hons, MSc, PhD, N/A)?

N/A

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

No

Primary author: Mr HORSZOWSKI, Peter (PERT INDUSTRIALS)

Session Classification: Physics Education

Track Classification: Track E - Physics Education