



Contribution ID: 60

Type: **Symposium in Wroclaw**

Insights and Reflections in Physics Teaching and Learning at High School and University

Wednesday, December 15, 2021 11:00 AM (1h 30m)

Online Symposium. Organized by GTG Physics education Research at University-PERU

Abstract. Many countries are experiencing significant problems with engaging students with the advanced study of physical sciences. Where this is the case, it is a source of significant concern. Whilst science and engineering are often seen as interesting to young people, such interest is not reflected in the learning outcomes in science and engineering degrees that have little success in the early years. The reasons for this are complex but need to be addressed. More attempts at innovative curricula and ways of organising the teaching of science that address the issue of low student motivation and learning are required. This Symposium presents emerging topics in physics teaching and / or learning as an effort to innovate and improve the research-based physics education.

Presenters: SIJMKENS, Elien (KU Leuven); SIJMKENS, Elien; GUIASOLA, Jenaro (University of the Basque country); GUIASOLA, Jenaro; GUIASOLA, Jenaro (UPV/EHU); IVANJEK, Lana (TU Dresden); IVANJEK, Lana; VAN KAMPEN, Paul (Dublin City University); VAN KAMPEN, Paul; KELLY, T.J. (Galway-Mayo Institute of Technology)

Session Classification: Parallel 7 - Wroclaw

Track Classification: 4. Teaching and learning physics concepts