



Contribution ID: 129

Type: **Oral presentations**

The role of uncertainty in developing sustainable futures scenarios

Tuesday 27 August 2024 10:50 (20 minutes)

This contribution explores the integration of uncertainty as a pedagogical tool in a climate change course designed for 12th-13th grade students. Drawing on interdisciplinary perspectives from physics education and futures studies, the course utilises an original board game to foster students' awareness of climate complexities and support sustainability competences development. The board game incorporates three kinds of uncertainties and leverages a simulator to explore climate-related decision-making, to stimulate students' critical reasoning while creating future scenarios. Findings suggest that the game effectively enhances students' comprehension of climate phenomena and decision-making processes, albeit with varied emotional responses, ranging from curiosity to hopelessness.

How would you like to present your contribution?

Live in Kraków (time slot to be allotted based on the programme)

Target education level

Secondary

Category

Formal Education

Author: MIANI, Lorenzo

Co-authors: DE ZUANI CASSINA, Francesco; LEVRINI, Olivia (Department of Physics and Astronomy, University of Bologna)

Presenter: MIANI, Lorenzo

Session Classification: Oral presentations

Track Classification: Physics for Environment and Social issues